WetaOPT Making the uncertain more certain

Model Inventory





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MetaOPT Model Inventory

Introduction

In this document we provide a brief overview of the models currently available as Public Models. This document is a summary – think quick view. Detailed guides for each model can be found on the website – <u>https://meta-optimize.com</u>.

Remember, however, this document is only focused on Public Models. Private models, specifically designed for individual customers, are available, so if you do not see exactly what you are looking for here, reach out and we can discuss how we can deliver a model perfect for your use case.

Access

To access any of the following models, you simply need to register. We only require Name and Email. There is no requirement for Credit Card details.

When you first register, we will gift 30 credits. A credit is a processing minute, enabling you to try models and confirm their suitability. This pricing methodology is designed to meet our goal of democratising access to complex mathematical models; the larger the data set the more complex the constraints, then the larger processing time. MetaOPT models can be enjoyed by organisations of all sizes and business types.

Inventory

The following models are currently available:

- Candidate Assessment
- Award Interpretation and Payroll Modelling
- Distribution Centre Task and Resource Scheduling
- Fixed Shift Scheduling
- Dynamic Shift Scheduling
- Transport Routing
- Train Routing for Coal Mines
- Hospital Admission Forecasting
- Surgical Procedure Forecasting
- Surgical Block Optimization
- NDIS Scheduling and Routing
- Sports Scheduling.



Candidate Assessment

The AI-based Resume Job Description Matching system utilizes innovative artificial intelligence technology to streamline the hiring process and identify the most suitable candidates for a specific job opening. This system leverages advanced natural language processing algorithms and machine learning techniques to analyze both job descriptions and resumes, enabling efficient and accurate matching.

Home Dashboard



Profile View

Profile Over	view	Albert Dreher	\sim					Number of above average car	ndidate
Company Va	lue	Comparison	Score	Sentiment	Score	Soft Ski	lls Score	Hard Skills Scor	е
20.1 Percentile: <u>55.95%</u>	5 Rank: <u>37</u>	73.3 Percentile: <u>59.52</u>	7 <u>6</u> Rank: <u>32</u>	9.8 Percentile: <u>94.0</u>	5 5% Rank: <u>4</u>	Percentile: 13	.00 8.10 % Rank: 8	19.00 Percentile: <u>28.57%</u> R	ank: §
Top 3 Candidates with H	Highest Scores	for each Category							
Comparison		Hard Skills		Soft Skills		Sentiment		Company Values	
Name	Score	Name	Score 9	Name	Score	Name	Score	Name	Sc
Otto Farkas	82.84	Abene Cornett	24.00	Abene Cornett	26.00	Franka Gallagh	er 9.92	Bion Van der Veen	4
Miracle Pelletier	82.87	Alhassan Albert	24.00	Alhassan Albert	26.00	Konrad Ayala	9.91	Blagun Rutten	4
Konrad Ayala	84.19	Auxentius Funar	24.00	Auxentius Funar	26.00	Tatu Obando	9.91	Jeremiasz Fairclough	5
		Duha Maki	24.00	Duha Maki	26.00				
		Dye Vang	24.00	Dye Vang	26.00				
Candidates With Scores	s Higher Than A Company	Average Among All Attrib	utes	d Skills Score Sentiment	Score Soft Sk	ills Score Email ID		Phone	
Abene Cornett		21.40	71.44	24.00	8.80	26.00 kavalipatiujwa	l@gmail.com	0422 761 625	
Amittal Starrett		33.97	75.76	38.00	9.82	43.00 bidiri@amail.c	yssi/@gmail.com	Not Available	
Christine Canello			70.00	30.00	7.50	45.00 manj@gman.e		0/07575///	
Christine Capello Citlali Guillory		34.37	80.29	90.00	8.96	87.00 aakashkodolik	ar ak@gmail.com	U40/2/2044	
Christine Capello Citlali Guillory Hania Comtois		34.37 27.34	80.29 74,76	90.00 24.00	8.96 9.80	87.00 aakashkodolik 26.00 Not Available	ar.ak@gmail.com	Not Available	
Christine Capello Citlali Guillory Hania Comtois Ilina Abdullaev		34.37 27.34 23.92	80.29 74.76 76.50	90.00 24.00 29.00	8.96 9.80 8.71	87.00 aakashkodolik 26.00 Not Available 30.00 tiwari.gajendra	ar.ak@gmail.com a@yahoo.com	0487575844 Not Available 0410073467	
Christine Capello Citlali Guillory Hania Comtois Ilina Abdullaev Jeremiasz Fairclough		34.37 27.34 23.92 53.44	80.29 74.76 76.50 75.91	90.00 24.00 29.00 24.00	8.96 9.80 8.71 8.57	87.00 aakashkodolik 26.00 Not Available 30.00 tiwari.gajendra 26.00 nicholasbrowr	ar.ak@gmail.com a@yahoo.com iingdev@gmail.com	Not Available 0410073467 0409787662	



Comparison View



Comparison Table

Comparison Table	Candidates rank greater than 67% of people reader than 67% of peopl	egistered 🛛 🛑 Cano	lidates rank between 33% to 67%	Candidates rank between
Attribute	Score	Percentile	Bank	Name
¥				✓ Search
Soft Skills Score				Select all
Auxentius Funar	26.00	63.10	0% 6 🔵	Abene Cornett
Amy Klein	22.00	35.7	1% 7 🔵	Albert Dreber
Alhassan Albert	26.00	63.10)% 6 🔵	
Sentiment Score				Alexandra Medved
Auxentius Funar	0.00	0.00)% 67 🔴	Alfwin Power
Amy Klein	9.74	82.14	\$% 11 🔵	✓ Alhassan Albert
Alhassan Albert	9.27	55.9	5% 26 🔵	Amin Skov
Hard Skills Score				
Auxentius Funar	24.00	55.9	5% 7 🔵	Amittai Starrett
Amy Klein	19.00	28.5	7% 8 🔵	 Amy Klein
Alhassan Albert	24.00	55.9	5% 7 🔵	Andreas Alma
Comparison Score				Attila Denman
Auxentius Funar	69.71	50.00	39 🔴	
Amy Klein	77.15	80.9	5% 14 🔘	 Auxentius Funar
Alhassan Albert	63.74	33.33	3% 53 🔴	Bion Van der Veen
Company Values Score				Blagun Rutten
Auxentius Funar	18.25	46.43	3% 45 🔴	Breann Allegro
Amy Klein	12.16	19.0	5% 67 🔴	
Alhassan Albert	20.23	57.14	4% 36 🔴	
				Brittani Ott
				Burchard Gronchi
				Christine Capello
				Ciaran Devi
				Citlali Guillory
				David Ellisten

Resources:

Video: Master Candidate Assessment with MetaOPT.

Download MetaOPT Assessment Guide



Award Interpretation and Payroll Modelling

A comprehensive model designed to streamline the process of interpreting timesheets against employment conditions to create daily payroll. The model consumes various timesheets and applies specified employment conditions to them. This model is versatile and can adapt to different industries with the right configuration.

As a user you can configure the award conditions to mirror your existing compliance requirements and is the perfect model to confirm your organization is protected from 'wage theft.' The ideal model to confirm existing systems are interpreting your employment conditions correctly, or as a forecasting tool to confirm the 'actual' cost of a projected roster, noting that the model not only calculates employee payments but on costs as well – Superannuation, Work Cover and Payroll Tax.

The model also provides costing by position and location, where each positions rates can be defined separately.



Overview



Costing by Worksite (Location)



Costing by Position







Individual Payslip

		Team Men	nher								
88	Payslip	John Bone		\sim							
Tæ 🛛	Taxable Earnings										
	StartDate	StartTime	EndTime	Position	Worksite	Name	FriendlyName	Quantity Rat	e	Value	
QIII.	Total						Double Time	63.00	\$578.68		\$2,486.18
	15 October 2023	14:00:00	03:00:00	RN1	ICU	DAY1	Ordinary	10.00	\$35.66		\$356.62
<u> </u>						OT1	Time and a Half	2.00	\$53.50		\$107.00
						OT2	Double Time	1.00	\$71.33		\$71.33
	Non-Taxable Earning	gs									
	StartDate	StartTime	EndTime	Position	Worksite	Name	FriendlyName	Quantity Rate		Value	
	Total						Laundry Allowance	15.00	\$151.83		\$151.83
	15 October 2023	14:00:00	03:00:00	RN1	ICU	MEAL	Meal >= 1 Hour Overtime	1.00	\$15.20		\$15.20
	14 October 2023	13:00:00	23:00:00	RN1	ICU	MEAL	Meal >= 1 Hour Overtime	1.00	\$15.20		\$15.20
	13 October 2023	12:00:00	22:00:00	EN1	ICU	DAILY02	Uniform Allowance	1.00	\$1.23		\$1.23
							2 □ =		£ (0 (00		*****
						Ic	otal Earnings \$2,636.01	Tax Payable	\$674.00	Net Payable	\$1,744.01
	On Cost Payments										
	StartDate	StartTime	EndTime	Position	Worksite	Name	FriendlyName	hours_IsOnCOST	rates_lsOnC	OST Pay_IsOnC	:ost
	Total						Employer Super Contribution	7,594	62	1.14	\$479.20
	09 October 2023	08:00:00	18:00:00	RN1	ICU	PayrollTax	Payroll Tax	376.	06	0.05	\$20.50
						Super	Employer Super Contribution	356.	62	0.11	\$39.23

Resources:

Video: MetaOPT's Ultimate Guide to Timesheet Interpretation

Download MetaOPT Award Interpretation Guide

Short Online Curiobites Course – Transforming Timesheets into Interpreted Payroll



Distribution Centre Task and Resource Scheduling

The challenges facing distribution centres are complex. It is made more complex given the need to manage both inbound and outbound volume into the warehouse, both with high variability. Taking forecasted volume, the model will allocate the right workers with the right skills and availability to complete the various tasks. The model used defined standards to determine the labour hours required to ensure the products are despatched in time to meet the delivery windows of the customers.

The model takes numerous data elements and constraints including Forecasted absenteeism, off task and indirect management, staging capacity, function, and task as well as employment conditions for cost calculations.

This model is perfect for Distribution Centre Management to ensure product is received and processed in the most efficient manner, while ensuring all customer deliveries are despatched in the required times.

Overview - Warehouse Rostering





Contact View

Con	tacts	Contact										
		Gregory (Drtiz					\sim				
	Total Wa	ges	⊘ Employee íype	Ŧ	Total Shifts V	/orked	Total H	ours Worked	Total O	vertime	Total We	ekend Sh
	\$2.36	бК	Full Time Employe Shift (rostered timings)	e	5			40	Hours: \$202	: 30 hrs 20.72		0
Total V	Wages by Ta	sks performed b	y Contact	Sta	artDate	06:00:00	14:00:00	22:00:00	Total wage by	Days		
92,0	000	\$1,814.80		08	-14-2023	×	~	×	Friday			547.87
\$1,5 8	500			08	-15-2023 -16-2023	×	\checkmark	×	Thursday			547.87
otal Wag	000			08	-17-2023	×	 ✓ 	×	Wednesday			547.87
\$5	500		\$547.87		-18-2023	×	~		Tuesday			445.14
	\$0	GTP	CLS Picking						Monday		273.93	
			TOPA								Totat Wage	
Con	itact S	start_time	End_time	Task	Day	Normal Hours	DT_1 Hours	OT_2 Hours N	ormal hours wage OT	I hours wage O	T2 hours wage T	otal Wages
Gree	gory Ortiz	6/08/2023 14:0	0:00 16/08/2023 22:00:00	CLS Picking	Wednesday	0	0	8	0.00	0.00	548	547.87
Gree	gory Ortiz	7/08/2023 14:0	0:00 17/08/2023 22:00:00	GTP	Thursday	0	0	8	0.00	0.00	548	547.87
Gree	gory Ortiz	8/08/2023 14:0	0:00 18/08/2023 22:00:00	GTP	Friday	0	0	8	0.00	0.00	548	547.87
Gree	gory Ortiz	5/08/2023 14:0	0:00 15/08/2023 22:00:00	GTP	Tuesday	2	2	4	68.48	102.72	274	445.14
Gree	gory Ortiz	4/08/2023 14:0	0:00 14/08/2023 22:00:00	GTP	Monday	8	0	0	273.93	0.00	0	273.93

Shift by Day







Costing by Task





Fixed Shift Scheduling

This model is perfect for organizations that have a structured shift pattern, think Morning, Afternoon and Night Shifts. For each shift type the model takes the resource requirements for each position and worksite (location) and automatically schedules the available resource with the pre-requisite skills/qualifications to meet the requirements, all while considering individual availability, and preference as to which shift and which worksite the individual team members.

In addition, the user can specify the following constraints:

- Maximum Hours in a Week
- Minimum Break from Prior Schedule
- Maximum Consecutive Shifts in a Week.





Unfilled Shifts



Schedule by Contact

05/07/2022 23:00:00

06/07/2022 23:00:00

09/07/2022 07:00:00

06/07/2022 07:00:00

07/07/2022 07:00:00

09/07/2022 16:00:00

Registered Nurse

Enrolled Nurse

Enrolled Nurse

	Contacts	Select Contact						W	eek Number
		Aero Jones		~ 2	В				
3	Shifts Assigne	Assigned on Weekday Shifts Assigned on Weekend			Total Shifts Assigned	% Works	site match	⊘ Total Hours Work	
5	3	3		1		4	100.	.00%	34.00
	StartDate		07:00:00	15:00:00	23:00:	Total Shifts Assigned by Position		Hours worked ead	:h day
	07-09-2022		 ✓ 	×	×			8	9
	07-08-2022		×	×	×			(23.53%)	(26.47%)
	07-07-2022		×	×	×		Position		Monday
	07-06-2022		×	×	\checkmark		Enrolled Nu		Saturday
	07-05-2022		×	×	\checkmark		Registered		Tuesday
	07-04-2022		V	X	×				Wednesday
	07-03-2022		×	×	×	(50%))	8(23.53%)	9 (26.47%)
	StartDateTime	Endl	DateTime		Position	Day Name	Worksite	MatchWorksitePr	eference MatchShiftsPreference
	04/07/2022 07	00.00 04/0	7/2022 16:0	0.00	Registered Nurse	Monday	Ward - A1	True	True

Tuesday

Saturday

Wednesday

Ward - A1

Ward - A1

Ward - A1

True

True

True

True

True

True



Calendar View



Resources:

<u>Video – Revised Nurse Schedules in Minutes with MetaOPT</u> <u>Video – MetaOPT Scenarios</u> <u>Download MetaOPT Fixed Shift Fixed Requirement User Guide</u> <u>Short Online Curiobites Course – Prescriptive Analysis</u>





Dynamic Shift Scheduling

This model is an alternative to the Fixed Shift one above. In this model the shifts are not fixed, the staffing requirements (number of positions to fill) are based on a projected demand. Such a model would be perfect for a call center, where the projected calls will determine the number of operators staffing the phones, or events where demand can fluctuate, and the employment agreement provides for flexible start and finish times.

The schedule considers team member preferences, availability and qualifications as does the Fixed Shift Model, however, provides additional constraints to for greater flexibility when determining the optimal roster.

The following constraints can be specified when running the model:

- Available Start Times (one or more)
- Preferred Shift Lengths
- Rounding
- Breaks Length and Break Span
- Maximum Hours per Day
- Maximum Hours per Week
- Maximum Consecutive Shifts
- Minimum Hours per Shift
- Maximum Split Shift
- Minimum Break Between Shifts

With this model the algorithm will generate shift lengths that best match the constraints and the varying requirements during a span of time.

[Dashboard Currently in Development]



Transport Routing

The purpose of this model is to ensure all customer orders are delivered within their specified delivery windows in the most efficient and cost-effective manner. The model will determine the optimal routes for the drivers to reduce delivery time, wait time and late delivery costs.

The model consumes the following data: Wait Time Cost, Late Delivery Cost, Customer Profile (Zone, Delivery Window and GPS Co-ordinates), Customer Orders, Vehicle Types, Driver Qualifications, Driver Availability, and the Distance Matrix for all combinations of Customers.

The model will find the optimal balance between meeting customer requirements, while reducing overall cost.

Deliveries Overview







Vehicle/Truck Detail







<mark>X</mark> Meta<mark>OPT</mark>

Customer

ALERT: CUSTOMERS PENDING FOR DELIVERY GIVEN BELOW IF ANY: S Select Customer Customer CUS007 Home . Volume Delivered Delivery Speed Travel Time Delivered by Distance travelled Total Cost Drive DRIVER008 40.00 72.36 km/hr 60.30 km \$356.95 0.83 hrs Truck Type WORK TIME ANALYSIS COST DISTRIBUTION PENDING ORDERS -Time (in hours) Serve Time vs. Wait Time vs. L 0.17 (3.45 Total Wait Time Cost Otal Delivery Cost Total Late Time Cost Custome \$123.62 (34.63%) Customer Sum of Volume Date - 4.67 (96.55%) \$233.33 (65.37%) Category Total Wait Time Total Serve Time Total Late Time TOP COSTLIEST ROUTES Start Location End Location Total Cost Late Time Sp start_time driver DEPOT01 CUS007 3/08/2022 5:00:00 AM DRIVER008 60.30 356.95 0.00 72.36 CUS041 CUS017 3/08/2022 6:20:00 AM DRIVER006 67.91 314.21 0.00 81.49 CUS015 DEPOT01 3/08/2022 7:30:00 AM DRIVER005 50.90 221.02 0.00 76.35 Customers Page: This page contains information of each customer with their important metrices. Track pending orders and discover top costliest customers, complete with detailed metrics for each. It also provides the work time analysis for each customers selected and the cost associated with it.

Resources:

Download Routing Requirements Guide Short Online Curiobites Course – Prescriptive Analysis



Train Routing for Coal Mines

The purpose of this model is to ensure the optimal delivery of mined Coal to various ports from a collection of Mines. The model consumes the following data to build the most efficient train schedule for ensuring all forecasted demand is delivered to the ports at the time required while maximizing train capacity.

- Systems Individual Ports reside within a System.
- Port/Terminal including Unloading Attribute
- Mines A Mine is associated with a system with Loading attributes.
- Trains Speed and Capacity
- Parking Details
- Train Master Qualifications required, System and Parking association.
- Train Stations System association and stop detail.
- Distance Matrix of distance between Parks, Ports, Mines and Stations.
- Drivers Qualifications and System Association

Driver Roster – Deliveries can only be scheduled when a driver is rostered to work. (Note an extension of this model could determine the Roster to meet the Forecasted Demand, rather than fitting the demand requirements to a pre-determined roster.

The output of the model is the most optimum schedule of forecasted deliveries from Park to Mine to Port and back considering the available trains, their capacity, speed and parking location, the qualified drivers available.

[Dashboard Currently in Development]



Hospital Admission Forecasting

Hospital admissions forecasting is a critical process that involves predicting the number of patients expected to be admitted to a hospital within a future period. This model systematically processes data from each admission over a historical period, capturing details such as the date of departure, duration of stay, and the number of days spent in the Intensive Care Department (ICU). Additionally, the model incorporates demographic information like age and gender. This model is the perfect partner to ensure your Nursing Ratios are optimized, i.e. not under of over staffed by accurately predicting requirements ahead of time.

Admissions Overview

88

Home * Å -⊙→



Forecast by Age



Forecast by Gender



View by Date and Compare



Resources:

<u>Video: Mastering Hospital Admission Forecasting</u> <u>Short Online Curiobites Course – An Introduction to Time Series Forecasting</u> <u>Short Online Curiobites Course – The Application of ARIMA in Forecasting</u>



Surgical Procedure Forecasting

Like the Hospital Admission Forecasting – this model is specific to surgical procedures. It is the perfect partner to the following Module – Surgical Block Optimisation. The purpose of this model is to project the number of surgeries for a given procedure that will need to be performed on a given date in the future. The model takes it a step further, by also forecasting the Surgical Time (in theatre), the hours required in ICU, PostOP and General Surgical wards, users can become really initiative taking in resource management. Staffing ratios can be calculated, considering the forecasted bed capacity.

[Dashboard Currently in Development]



Surgical Block Optimization

Surgical block optimization refers to the strategic allocation and scheduling of operating room time and resources. A "block" is a specific period reserved in the OR schedule for surgeries, usually designated for surgeons or surgical groups. Optimizing these blocks involves efficiently planning and utilizing available OR time, staff, equipment, and post-operative care resources to meet the demand for surgical procedures.

The complexity of the model not only considers the surgical forecast, available theatres and surgeons' availability and skill, it ensures the bed capacity requirements post-surgery can meet the through put. The model will ensure there is always a bed available for the patient post-surgery, while accounting the specific attributes of the various procedures.

ORs are among the most resource-intensive areas in a hospital. Effective block optimization ensures the best use of these resources, minimizing idle times and maximizing surgical output.



Forecast Surgery Overview



By Surgical Group

	-	Select Surgical Group	op						5	urgeries Require ICU Stay: 32
Surgical	Groups	Cardiothoracic				\sim				
			0 0 =							
# of	Surgeries	Total Surg	eons Worked	# o'	f Service Line	es	# of	Hours spent on surgeries	Surgeon v	vith most surgeries
	32		6		4			157	Ni	gel Brown
Date	Surgical Group	Service Line		Surgeon	Theatre	Time Start	Time End 07:0	0 08:00 09:00 10:00 11:	00 12:00 13:00 14:0	0 15:00 16:00 17:00 18:00
07-03-2023	Cardiothoracic	Valve Repair/Replaceme	nt	Bruce Jones	Theatre 14	12:00:00	18:00:00			
				John Goods	Theatre 15	12:00:00	18:00:00			
		Lung Resection	(Mana procedure)	Quin Hands	Theatre 19	13:00:00	18:00:00			
		Atrial Fibrination Surgery	y (Maze procedure)	namisti jones	ineatre of	12:00:00	16:00:00			
				John Coods	Theatre 15	08:00:00	12:00:00			
				Nigel Brown	Theatre 14	08:00:00	12:00:00			
				Paula Revel	Theatre 19	09:00:00	13:00:00			
08-03-2023	Cardiothoracic	Valve Repair/Replaceme	nt	Hamish Jones	Theatre 14	08:00:00	14:00:00			
		Lung Resection		Paula Revel	Theatre 18	09:00:00	14:00:00			
		Coronary Artery Bypass	Grafting (CABG)	Bruce Jones	Theatre 01	07:00:00	14:00:00			
				Quin Hands	Theatre 13	07:00:00	14:00:00			
		Atrial Fibrillation Surgery	y (Maze procedure)	Hamish Jones	Theatre 01	14:00:00	18:00:00			
				John Goods	Theatre 15	08:00:00	12:00:00			
Surgeries Dist	tribution					Time Start	~	Stay Duration (Days) Dis	stribution	GEN_stay_days
BASED ON ICU STAY			Total number of	surgeries by Time	Start			GEN_stay_days	0 192	
Surgeries reg	uire ICU Stay 🔍 Surgeries n	ot require ICU stay	10							
. 20		,	10 #					10 Mar	57.14%	14.29% 28.57%
2			al la di							
a 15			na ja				6	00 Mar	75.00%	
interest			5	4			Average: 4.00	09 Mai	75.00%	12.30% 12.30%
Surgeries re			Median: 3.5	3	1 1		3	08 Mar	66.67%	11.11% 22.22%
- 0 · · · · · ·	al Coronary Artery Value	Jung Resertion	07:00 0	8:00 09:00 10	0:00 11:00	12:00 1	3:00 14:00	07 Mar	87.50%	12.50%
Fibrilla	ation Bypass Grafting Repair/Re	plac			time stars				07.5070	12.001
Surgery (Maze (CABG) Service Line							0% 20	% 40% Percer	60% 80% 100
	Service Line								Percer	

Bed Occupancy



By Surgeon



Resources:

Short Online Curiobites Course – Surgical Block Optimization Download MetaOPT Surgical Block Optimization Guide



NDIS Scheduling and Routing

The challenges of Home Care are great. Participants, those requiring the care, may have multiple needs where these same needs require carers with different skills.

Like the Fixed Shift and Dynamic Shift models this model will assign the carers with the right skills to deliver the services in home required by consuming carer skills/qualifications, preferences, and availability.

The model however deals with the added complexity of routing the carers, ensuring that the carers a visiting the carers in the most efficient manner, i.e., a model that not only minimizes travel time but also ensures the windows when the carer is expecting care are respected.

[Dashboard Currently Under Development]

Register Now:

Visit <u>https://meta-optimize.com</u> and register to access the Candidate Assessment Model. On registration you will be provided with thirty introductory credits, enabling you to see first-hand, on us, how you will not only streamline your recruitment process but improve the outcomes for sustainable improvement.