

Vaibhavnath JHA

Operations Research Analyst, M.Sc.

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📍 Braunschweig, Germany 🇮 Indian Citizen | German Resident

Operations Research professional with background in Mathematical Optimization and Business Analytics. Specializing in Supply Chain Management with sound technical skills to effectively solve and visualize strategic, tactical and operational problems.

💼 PROFESSIONAL EXPERIENCE

Present	Operations Research Analyst, GAMS SOFTWARE GMBH, Frechen, Germany
April 2022	<ul style="list-style-type: none">> Part of the ProvideQ project which combines Mathematical Optimization and Quantum Computing> Part of the development team, responsible for implementing and maintaining new features for the software product <div style="display: flex; justify-content: space-around; gap: 10px;">GAMSPythonOptimizationQuantum Computing</div>
March 2022	Python Developer Part-time, AMS BIOTECHNOLOGY LTD., Oxford, England
September 2021	<ul style="list-style-type: none">> Developing and Maintaining organization's ERP software> Ad-hoc python programming tasks> Extract, Transform, Load data into organization's database <div style="display: flex; justify-content: space-around; gap: 10px;">Odoo ERPPythonMS-ExcelMySQLPower BI</div>

🎓 EDUCATION

April 2022	M.Sc. Operations Research & Business Analytics Faculty of Economics & Management, OTTO-vON-GUERICKE UNIVERSITÄT, Magdeburg, Germany
October 2019	<ul style="list-style-type: none">> GPA : 1.8 ECTS> Thesis : Human Choice Behavior in Car Driving> Admission in Dean's Merit List <div style="display: flex; justify-content: space-around; gap: 10px;">Supply Chain ManagementMachine LearningPredictive AnalyticsComputational Transportation AI-Based Decision SupportDiscrete Choice Models</div>

💻 SKILLS

Database Management Systems	MySQL, PostgreSQL
Data Visualization Tools	Power BI, Tableau
Development Tools	Visual Studio Code, Sublime, Git, Postman
ERP Software	Odoo 14
Mathematical Modelling	GAMS, GAMSPy
Office Suites	Microsoft Word, MS-PowerPoint, MS-Excel
Operating Systems	Windows 7/10, Windows Server, Linux Ubuntu, Linux PopOs
Programming Languages	Python, RStudio, JavaScript
Web Development	Django, Ajax, HTML5

RESEARCH & PROJECTS

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- March 2022 **Master Thesis : Human Choice Behavior in Car Driving**
- Primary Objective : Estimate adequate behavioral choice models in order to understand the decision-making process while driving a car
 - Secondary Objective : Scrap the web for in-drive choice date
 - Several **Multinomial Logit** models, based on the utility maximization theory, were estimated using the Apollo package for R to capture the underlying choice behavior
- March 2021 **Lot sizing for injection moulding machines at BMW Group**
- Primary Objective : Minimization of set up and inventory costs
 - Secondary Objective : Creating a cost-effective schedule
 - A **Mixed integer mathematical model** was researched and later Tabu Search heuristic was used in order to optimize the associated costs.
 - The mathematical model and Tabu Search heuristic were developed on **Python**, using its linear programming library, **PuLP**
- May 2019 **Employee Satisfaction**
- Primary Objective : To determine level of satisfaction of employees in a consultancy with the use of a well-researched **Questionnaire** and later using **Exploratory Factor Analysis**.
 - Secondary Objective :
 1. To know employee's opinion about work place, pay and benefits
 2. Study and analyses the various factors affecting the job satisfaction level
 - Tools like **R, SPSS and MS-Excel** were used to recommend ways to retain employees of the firm and better the attrition rate
- Present **Python Playground**
- Maintaining a web-page to host self-crafted projects like **Time Series Forecasting, Capacitated Lot Sizing, K-means Clustering**.