MUKESH GADUPUDI

Data Scientist with 4+ years of experience in building multiprocessing python applications, overcoming complex architectural, and scalability issues. Proficient in statistical analysis, geospatial data science, machine learning, deep learning algorithms, and well-versed in languages, such as Python, Java, Go, SQL. Experience in startups and MNCs make me well suited to roles that require navigating uncertainty, but with high levels of autonomy.

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EXPERIENCE

Senior Data Scientist
Zeus Living Pte.

📅 Jan 2021 – Present   📍 Singapore

- Managed a 3-person Data team to develop Zeus' **Geo Spatial ML-based Microservice**. Increased **booking conversion via recommender systems**, provided **competitive intelligence via geospatial modelling**, and **revamped on our dynamic pricing engine**.
- Led the data team to develop Demand Zones, the product currently being used to **pilot the expansion of Zeus to new places using GeoSpatial Data Science**.
- Developed pricing algorithms and built end to end system to price Zeus listings using **Search Demand, Occupancy and Price Elasticity** which helped increase general occupancy by about 9%.
- Developed **parallelised algorithms** which sped up our systems >10X for various projects.
- **Mentored interns** to build systems such as Flex Lease Pricing, Similarity scoring model which sped new lead pricing by about 6 hours / lead on average.

Commodities Sales and Trading Tech Analyst
Goldman Sachs Pte.

📅 Feb 2020 – Jan 2021   📍 Singapore

- Worked on the Front line to build trade booking systems, reconciliation systems using **Java** and a proprietary language called **Slang**.
- Secondary responsibility as a trading desk support covering a range of daily tasks, including **PNL report generation, risk server maintenance, trade propagation**, and system maintenance.
- Worked closely with traders, clients, valuations, and operations to ensure the accurate and timely booking of trades in various booking entities.

Software Engineering Intern
VISA

📅 May 2019 – Aug 2019   📍 Singapore

- Built internal notification and patching microservices using **Go**.
- Developed the basic architecture to enable an **active-active** scenario with around **99.9% up time** and resilience to handle any catastrophic events or failure for the microservices while extensively using tools like **Swagger** and **Jenkins** and following a **TDD plan**.

Algorithm Developer and Data Science Contractor
Qsee.io

📅 Jan 2018 – Dec 2018   📍 Tel Aviv, Israel

- Applied various **ML algorithms** to analyze and find trends in Quality for products from various MNCs like Stanley and AlHadera showing they can reduce their revenue spent on quality checks **by over 15%** using libraries like **Pandas** and **Scikit-Learn**.
- Created a real-time web-based application with **Flask** and **Django** and integrated it with other services including **Predictive Algorithms** and **Front End Analysis DashBoard**.

SKILLS

General Skills
Machine Learning, Deep Learning, GeoSpatial DataScience, Data Visualisation

Technical Skills
Languages: Python, Java, Go, SQL
Libraries: Scikit-Learn, Pandas, Numpy, TensorFlow, Pytorch

EDUCATION / COURSES

BComp in Computer Science
National University of Singapore

📅 Jul 2016 - Dec 2019

- Highest Distinction in Machine Learning and AI

NOC Israel , Batch 15
NUS Overseas Colleges

📅 Jul 2018 - Dec 2018

- Start Up Internship Program
- Technopreneurship

HONORS & AWARDS

- National Talent Search Scholar
- Winner of BizPrediction Contest
- Advanced Level Winner @Orbital
- Runner Up at #Boscheville2018

PROJECTS

Tetris Solver

- **Genetic Algorithms, Noise Cross Entropy, Python**
  - Created a self learning Python multiprocessing Tetris Game from scratch which could clear on average over a million rows using **Genetic algorithms**, **Noisy Cross Entropy**.

CNF-SAT-Solver

- **AI Heuristics, Java**
  - Built a Conjugative Normal Form (CNF) SAT Solver which can take CNF formulas with upto 140 variables and solve the equation using **AI based heuristics**.

Finding Waldo

- **CV Algorithms, Python**
  - Implemented CV algorithms from scratch to find Waldo from images without using deep learning of any sort.