

OJAS DESHMUKH

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TECHNICAL SKILLS

- Python, SQL, C++, HTML, CSS, MATLAB
- Tableau, PowerBi, Snowflake, Microsoft Excel
- Data analysis, Machine learning, Optimization, Mathematical programming, Data modelling

WORK EXPERIENCE

Developer, The Final Tag, ecommerce website Oct 2024 - Present
Developed The Final Tag, a platform simplifying clearance sale discovery with real-time data and advanced search features.

- Engineered a clearance sale platform, integrating real-time data (HTML, CSS, Python (**Flask** framework)).
- Achieved a 25% reduction in user search time for clearance deals specifically.
- Implemented **search algorithms** to address user pain points, improving deal discoverability compared to manual browsing.
- Developed a robust **web scraping** system to automate the collection of clearance data, processing over 100 products daily with 90% accuracy.
- Optimized platform scalability, resolving performance bottlenecks, enabling seamless user experiences during high-traffic periods.

Operations Manager, Resnick Student Union - Fresno State University Sept 2022 - Dec 2024
Lead a team of ten employees in sanitizing and cleaning operations at the Resnick student union building.

- Developed a daily information excel sheets system to keep track of tasks completed in each shift.
- Managing inventory and keeping logs of usage of supplies on each floor.
- Training new associates for various tasks related to technical and operations work.

Olympiad Math and General Mental Ability Tutor, Fresno highschool community May 2023 - Dec 2023
Provided coaching in math and logical reasoning, fostering student success in competitive exams and Olympiads.

- Delivered tailored coaching in advanced mathematics and mental ability, equipping middle and high school students with problem-solving strategies for math Olympiads and competitive exams.
- Created personalized study plans and mock tests, significantly improving students' performance in regional competitions.

PROJECT EXPERIENCE

Geospatial Data Scientist, AI model development Aug 2024 – Dec 2024
Developed a DNN to answer transportation and development related questions for Fresno County.

- Built 3 Deep Learn (**FNN**) models to classify land use across 55 categories using geospatial features. Primary language used was Python
- Classified urban land use in Fresno County, achieving 96.7% accuracy and **improving minority class recall** through **SMOTE**.
- Predicted optimal areas for streets likely to experience the highest demand due to transport enhancements.
- Recommended new bus stop placements to enhance accessibility for growing housing density, informed by zoning data.

Data Analyst, Pricing Test Jan 2024 – May 2024
*Conducted **statistical analysis** and **A/B testing** to optimize product pricing using Python.*

- Cleaned large datasets for **performing hypothesis testing** to evaluate conversion rates at different price points.
- Increased revenue per user by 18% through providing statistical insights into customer pricing sensitivity.
- Identified key customer demographics, enabling targeted marketing strategies for mobile and iOS users.

Python ML Engineer, Mind-Sumo - Wells Fargo Campus Analytics Challenge 2022 Apr 2022 - Jun 2022
Implemented NLP with Random Forest to recognize expense distribution for the customers in a group of 2 peers.

- Performed anomaly detection and optimized the categorization precision to 81%.
- Utilized multiple classification models to classify expenses into various categories to cross-verify the reliability.
- Developed bag of words library array component using **Python**.

RESEARCH EXPERIENCE

Research Assistant, Risk Analysis, Value at Risk methodology - Fresno State, Fresno, CA *Dec 2023 - Present*
Employing Random Forest and Traditional Models for Advanced VaR Analysis and Financial Risk Prediction.

- Implementing traditional and Random Forest VaR estimation methods for financial data in python.
- Conducting comparative analysis between classical and machine learning models for prediction reliability.
- Currently interpreting model outcomes, deriving actionable insights for future research directions in financial risk management.

EDUCATION

California State University, Fresno, CA *Dec 2024*

B.S. - Special Major with focus in Applied Mathematics, Computer Science, Information System

- Coursework: Mathematical Programming and Modelling (Python), Partial Differential equations, Object Oriented Programming (C++), Data Structures (Python), Time series Analysis, Machine Learning (Python), Artificial Intelligence, Deep Learning, **FNN**, **CNN**, **RNN** (Python).

EXTRACURRICULAR

Collegiate Entrepreneurship Organization (CEO) Conference, Pitching Competition *Oct 2024 - Dec 2024*

- Selected in Top 50 Pitches and Business Idea amongst 650 participants at the CEO Conference Pitching Competition, showcasing Raphael's Guide, an innovative platform designed to address the need for accessible, personalized educational resources to enhance student learning and engagement.

COURSES AND ORGANIZATIONS

- Entrepreneurship Club, Collegiate Entrepreneurship Organization Chapter *Aug 2024 - Dec 2024*
- Google Developer Student Club - Co-President *Aug 2022 - May 2024*
- Computer Science Club - Event Coordinator *Aug 2022 - Dec 2022*
- Society for Industrial and Applied Mathematics club - Member *Aug 2021 - Present*
- Data Analysis in SQL, Datacamp *June 2022*
- Machine Learning, Coursera *March 2022*