SHEETAL RANI PRASAD

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EDUCATION

San Diego State University   **January 2022 - December 2023**
Master in Science, Computer Science   *GPA: 3.88*

- **Relevant Courses:** Machine Learning, Big Data, Data Science, Web Development, Software Engineering, Databases

University of Pune   **July 2013 - May 2017**
Bachelor of Engineering, Information Technology

PROFESSIONAL EXPERIENCE

San Diego State University Library   **San Diego, CA, USA**
Student Assistant   *April 2022 - Present*

- Refactored web application to improve performance using NodeJS, React, and MySQL for University Library to manage over 1000 metadata records
- Created automation script using Python, Selenium, and OpenRefine, reducing manual work by 90%

Amazon Web Services   **Seattle, WA, USA**
Software Development Engineer Intern   *May 2023 - August 2023*

- Deep Dived in the existing code-base to designed a system for the cleanup of data in DynamoDB resulting in reducing overhead on the system and users impacting 35% of data
- Delivered Result by taking ownership of the end-to-end module which is live in 40 AWS regions
- Participated in Agile Software Development activities and code reviews to maintain code quality and test coverage above 80%

ConnectWise   **Pune, Maharashtra, India**
Software Engineer 2   *September 2020 - December 2021*

- Implemented 20+ Restful APIs for a ticketing system, demonstrating expertise in Object-oriented Design, Go, and PostgreSQL to improve system functionality
- Led a pilot project to build the front end for 10 microservices with React, optimizing the user interface for seamless interaction
- Containerized and deployed the application on AWS through Docker, enhancing performance and maintaining code coverage tests above 95%
- Cultivated a positive work environment by organizing and executing team-building activities and events for a team of 16

Capco Technologies   **Pune, Maharashtra, India**
Consultant   *August 2017 - September 2020*

- Re-engineered the Client Onboarding app using the Java-based platform - Appway, leading to its successful release in 3 countries
- Revamped the approval process and streamlined the notification system resulting in the elimination of manual interventions and a 30% reduction in processing time
- Collaborated with developers, testers, and product owners in a cross-functional team distributed globally across 4 regions to deliver new features

PROJECTS

Machine Learning - *Classification of Space Objects using Machine Learning*

- Developed multiple prediction models using Python, PySpark, Pandas and scikit-learn to classify 200,000 space objects in categories - stars, galaxies, and quasars, using supervised machine learning algorithms like SVM, KNN, and Random-Forest and compared their accuracies for Big Data analysis

Natural Language Processing - *How the War in Ukraine is Affecting the Predictability of the Energy Stock Market*

- Explored the effects of the war in Ukraine on the energy market to see if the information would assist in predicting price movements. Conducted topic modeling and sentiment analysis on the Twitter data with 315,667 tweets using Latent Derelict Allocation and a Twitter pre-trained ro-BERTa model using Python, Pandas and NLTK

Full-stack Development - *Jail Information Management System*

- Coded a secure and scalable Information Management python web application using the Django framework and Azure cloud to handle the database in PostgreSQL that interacted with 4 sub-modules developed as separate system

SKILLS

Skills: Java, Go (Golang), Python, ReactJS, NodeJS, Back-end development, Agile, SCRUM, Atlassian Jira and Confluence, AWS, Data Analysis, Data Science, Data Structures & Algorithms, Django, Docker, Git, HTML/CSS, Jupyter, Linux/Unix, MongoDB, MySQL ,NoSQL, Cassandra, AWS DynamoDB, Postgres, RDBMS, Natural Language Processing (NLP), Python NLTK, NumPy, Pandas, Pytorch, Machine Learning, Classification Algorithms, Clustering Algorithms, Postman, REST APIs, Microservices, Web Development, Front-end Development, Software Testing, Software Engineering, Software Development, Communications, Collaboration