Sheetal Rani Prasad

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EDUCATION

San Diego State University   **December 2023**
Master of Science, Computer Science   *GPA: 3.88*
Relevant Courses: Big Data Tools & Techniques, Principles and Techniques of Data Science, Machine Learning

University of Pune
Bachelor of Engineering, Information Technology

PROFESSIONAL EXPERIENCE

San Diego State University Library   **San Diego, CA, USA**
Student Assistant   *April 2022 - Present*
- Refactored web application as a **full-stack developer** to improve performance using **NodeJS, React, and MySQL** for University Library to manage over 1000 metadata records
- Created automation script using **Python, Selenium, and Open-Refine**, reducing manual work by 90% of metadata refining for faculty guide

Amazon Web Services   **Seattle, WA, USA**
Software Development Engineer Intern   *May 2023 - August 2023*
- Deep Dived into the existing **Java** and **Spring framework** code-base to design a system for the cleanup of data in **DynamoDB** resulting in reducing overhead on the system and users impacting 35% of data
- Delivered Results as a full-stack developer by taking **ownership** of the end-to-end (back-end and front-end) module which is live in 40 AWS regions
- Developed and implemented **ReactJS** code for record deletion, enhancing user experience and providing real-time alerts for successful deletions which closed 2 user tickets without team intervention

ConnectWise   **Pune, MH, 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
- Cultivated a positive work environment by **organizing** and **executing team-building activities** and events for a team of 16
- Conducted comprehensive **code reviews** and **repository management** on **GitLab**, ensuring adherence to coding standards, enhancing code quality and maintain code coverage for testing above 95%

Capco Technologies   **Pune, MH, 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 following **Agile software engineering practices**

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** concluding that Random-Forest gives highest accuracy of 82%

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**

Recommendation System – *Movie Recommendation System*
- Developed a movie recommendation system utilizing collaborative filtering and content-based methods, enhancing user engagement through personalized film suggestions. Implemented in **Python**, the system demonstrated prowess in **data analysis and machine learning**.

SKILLS

- Programming Languages and Frameworks: Python, Golang (Go), Java, JavaScript, Spring, Django, HTML, CSS
- Tools and Technologies: AWS, Docker, Git, CI/CD, GitHub, Jira, Kafka, POSTMAN
- Databases: RDBMS, SQL, MySQL, PostgreSQL, NoSQL, MongoDB, AWS DynamoDB
- Machine Learning and Data Analysis: NumPy, Pandas, SciPy, PyTorch, Scikit-learn, Natural Language Processing (NLP)
- Microservices Architecture, RESTful APIs, Agile, Scrum, Data Structures, Algorithms