Sheetal Rani Prasad

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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 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 Results as full-stack developer by taking ownership of the end-to-end (back-end and front-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 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.

EDUCATION

San Diego State University   **December 2023**
Master in Science, Computer Science   *GPA: 3.88*
- **Relevant Courses:** Machine Learning, Big Data Analysis, Data Science, Databases

University of Pune
Bachelor of Engineering, Information Technology

SKILLS

Skills: Java, Go (Golang), Python, JavaScript (Node, React.js), Back-end development, Object-oriented programming, Agile, Jira and Confluence, AWS, Cloud Computing, Data Analysis, Data Science, Data Structures and Algorithms, Django, Docker, Git, Jupyter, PySpark, MongoDB, SQL, MySQL, NoSQL, Cassandra, AWS DynamoDB, Postgres, RDBMS, Natural Language Processing (NLP), Python NLTK, NumPy, Pandas, Pytorch, Machine Learning , TesnsorFlow, Scikit-learn, REST APIs, Software Testing, Software Engineering, Communication