Raj Dineshbhai Adroja

San Jose California | raj.adroja6501@gmail.com | +1 650-495-9669 | LinkedIn | GitHub

Education

San Jose State University, MS in Software Engineering   Aug 2024 – May 2026
- **Courses:** Software Systems Engineering, Machine Learning, Enterprise Software Platforms

Vellore Institute of Technology, B.tech in Computer Science GPA: 3.83/4.0   Jul 2018 – May 2022
- **Courses:** Network Engineering, Artificial Intelligence, Operating Systems, Image Processing, Cyber Security, Digital Forensics

Technical Skills

Areas Worked: Data Engineering, Machine Learning, Network Engineering, Web Development
Languages: Java, SQL, python, HTML, CSS, JavaScript, bash, react, nodejs
Tools: HANA, JIRA, Snowflake, Docker, Kubernetes, GitHub, Cisco Packet Tracker

Experience

Data Eng, Mgmt & Governance Analyst, Accenture – Bangalore, Karnataka   Nov 2022 – Jun 2024
- Spearheaded SAP Hana to Snowflake data migration, meticulously verifying 500+ objects' integrity for consistency and reliability. Implemented validation checks, ensuring accurate data transfer and eliminating redundancies, resulting in a 16% optimization of the dataset and improved query performance
- Designed and implemented comprehensive automated validation checks and data quality assurance processes, ensuring accuracy and completeness of data transfer between systems, resulting in enhanced data integrity and a 99.9% data accuracy rate post-migration
- Developed and deployed automated scripts for object migration, enhancing process efficiency by 30% in system transitions. These scripts handled various data types and structures, ensuring seamless transfer of complex objects and reducing manual errors

Software Engineering Intern, Viviana – Vadodara, Gujarat   Apr 2021 – May 2022
- Assisted in troubleshooting and maintaining UNIX-based systems, gaining hands-on experience with TCP/IP protocols and network fundamentals
- Developed and implemented small-scale Python scripts to automate routine network management tasks, enhancing operational efficiency
- Participated in projects involving basic routing protocols (BGP, OSPF) and switching concepts, contributing to the team's network design and management efforts

Teaching Assistant, VIT – Vellore, Tamil Nadu   Sep 2019 – Dec 2019
- Organized office hours to clarify concepts and review project work
- Graded assignments and exams, providing feedback to enhance student performance

Projects

Automatic colorization using auto-encoder
- Implemented unsupervised machine learning techniques to learn an efficient representation of images, utilizing 8-layer encoders to extract mid-level representations and capture essential features
- Achieved a 4% reduction in both dimensionality and noise through advanced optimization techniques, enhancing the model's ability to focus on crucial image areas and significantly improving the accuracy of the colorization process

Sentimental Analysis of Airline Tweets
- Implemented and rigorously tested multiple machine learning algorithms, including supervised and unsupervised methods, to address a specific problem in data analysis and prediction
- Performed an in-depth analysis of key performance metrics, such as accuracy, precision, recall, and F1-score, to comprehensively assess the effectiveness of each algorithm
- Conducted a thorough comparative analysis of the results, employing statistical techniques to identify the algorithm that consistently achieved the highest performance across all evaluated metrics

V-PROPEL portal
- Collaborated with the university's in-house development team to design and build a comprehensive examinations portal from scratch, implementing the front-end using React, HTML, CSS, and JavaScript
- Facilitated students to upload assignments, give tests, submit project reports and professors to grade tests, review assignments conveniently