Alireza Mahinparvar

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EDUCATION

Master of Science (MS), Artificial Intelligence, Specialization in Data science ` Dec 2023

San José State University, San José, CA

- Relevant coursework: Data science statistics, Introduction to AI, Database development, Data Mining and Big Data Algorithms

Bachelor of Science (BS), Computer Engineering Aug 2021

San José State University, San José, CA

- Relevant coursework: OOP in Java, Data Structure in C++ and Java, Statistics and Probability, Software engineering, Operation system design, Network, Embedded System, Computer architecture and Blockchain development

Industrial Experience

Prototype Test engineer co-op, Cisco Systems, San Jose, CA Oct. 2021– Jul.2022

- Developed Python scripts for hardware testing, resulting in a 30% increase in test efficiency, saving company both time and money.
- Facilitated cross-functional communication, resulting in a 20% reduction in project delays and a 15% increase in on-time delivery.
- Improved programming proficiency by developing Python scripts for hardware testing, resulting in a 30% increase in test efficiency.
- Collaborated with cross-functional teams, increasing efficiency by 30% and reducing error rates by 40% also recognized by the management for attention to detail and clear communication.

Instructional Student Assistant, San Jose State University, San Jose, CA Sept.2020 – Dec. 2021

- Supervised 30+ students each semester as a TA for Electronic Design and Computer Organization and Architecture courses.
- Engaged with an instructor in grading assignments and addressing student needs promptly, resulting in a 10% increase in students' final grades.
- Conducted weekly review sessions and created online resources, resulting in a 20% decrease in course dropouts.

Back-end developer, SJSU Summer camp project, San Jose, CA May. 2020 – Aug. 2020

- Collaborated with a back-end team to develop a farm supply chain website Handling with Java and Python.
- Utilized databases such as MongoDB, Node.js, and React.js and defined and tracked software development process.

Clerical Assistant, West Valley College Art, San Jose, CA Mar 2018 – May 2019

- Managed offices, answered phones, and organized schedules using Astra, Excel, Word, and other data analytics software.
- Analyzed cost bill for the office monthly and ordered office supplies.

Technical skills

Programming Languages: Python, C++, SQL, Java, R, Design Patterns, HTML, CSS, and Node.js
Operating Systems and Databases: Linux, Windows, MacOS, MySQL, PostgreSQL, and MongoDB
Software: Agile Methodologies, Visualization tool, Tableau, Excel Git, Visual Studio, Ubuntu,
Skills: Google analytics, Business analytics, public speaking, Communication, Critical Thinking, NumPy, Data analysis, Bash Script

Organizations

Google developer Student Club San Jose State University | Community Outreach Lead | San Jose, CA Aug2020 – Aug 2021

- Produced and implemented media campaigns and community events also recruited, organized, and trained volunteers.

Computer and software organization at San Jose state (SCE) | Public Relations officer | San Jose, CA Aug 2019 – Aug 2020

- Manage office during specific times and make posters for events.
- communicate with companies regarding of Tours for students, communicate with event planning team to design.

Projects

LS-SVM algorithm in handwriting recognition | Github | Youtube

- Dataset Selection: Selected USPS dataset for handwriting recognition, improving automated letter sorting realism and reliability.
- estimation
- Algorithm Performance: Evaluated LS-SVM, CNN, and RNN; LS-SVM outperformed CNN and RNN in letter sorting accuracy.
- Practical Implications: LS-SVM on USPS dataset enhances mail order efficiency, reduces errors, and improves customer satisfaction.

GANs - Generative Adversarial Networks | Github

- GAN Algorithm Exploration: Implemented DCGAN and customized models for faces and MNIST datasets, omitting max pooling and fully connected layers.
- Assumptions and Challenges: Analyzed CelebA Faces GAN's assumptions, identified limitations in gender and jewelry factors, and addressed the collapse problem.
- Results and Future Directions: MNIST digit GAN showed success, while CelebA Faces GAN did not converge; proposed separate batches for improved results. Explored diverse GAN applications, such as deep fakes and cancer drug targets.