Nima Hendi

CA
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EDUCATION

University of California, Irvine Sept. 2019 - June. 2023

B.S. Data Science Irvine, CA

Relevant coursework: Artificial Intelligence | Machine Learning | Operating System Principles | Complexity and Algorithms | Computer Systems Architecture | Data Structures and Algorithms | Computer Organization & Assembly | Computer Science

SKILLS

Coding Languages	**Python, C++, C, C#, Go Lang, R, JavaScript, Typescript, HTML, CSS, Swift, Agile, .Net, Ruby, React, MATLAB**
Data Tools	**SQL, PostgreSQL, Spark, Apache Airflow, MongoDB, Docker, Kubernetes, SAS, SPSS, Tableau, Qualtrics, jQuery**
Libraries and Testing	**Pandas, Numpy, TensorFlow, Scikit-learn, PyTorch, Seaborn, Matplotlib, A/B Testing, Automated UnitTest,**
Coding Tools	**Jupyter, Git, GitHub, Bash, VS code, XCode, AWS, GCE, Vim, DataGrip, RStudio, Linux, Microsoft Office**
Statistical Analysis	**Significance and Hypothesis Testing, Regression, Classification, Clustering, Correlations, Probability, Power BI**
Machine Learning	**Neural Networks and Deep Learning, MLflow, Apache Spark, LLMs, OpenAI, MLOps, Jenkins, AWS SageMaker**

EXPERIENCE

PROJECTS

Image Recognition, Maze Solver AI Project Jun. 2023 - present

- Revamped image recognition and classification tool through the utilization of advanced algorithms and techniques in Python. Revitalized development of a Maze solver employing AI methodologies, integrating backtracking, and heuristic approaches to achieve efficient and effective solutions. Contributed to the implementation of an Emacs-like editor using C++

Bachelor's Capstone Project, UCI & Accenture Feb. 2023 - Jun 2023

- Applied advanced Time Series Models like **ARIMA and SARIMAX,** along with Machine Learning techniques including **LSTM**, to refine predictions and minimize noise, achieving a **30% reduction in prediction error** to forecast California's energy consumption over the next 2, 5, and 10 years.
- Employed **Python and R libraries** for data analysis and visualization, presenting insights that suggested potential energy savings of up to **15% with strategic planning**.

Deep Learning Classification Project, UCI Feb 2023 - Jun 2023

- Project aimed at **optimizing image classification algorithms** for the renowned Tiny ImageNet dataset. Employed **Pandas, PostgreSQL.** Seamlessly integrated data into **Jupyter notebooks.**
- Designed and implemented a **hybrid CNN and ResNet model** utilizing **PyTorch and Keras**
- Through exhaustive **training and evaluation**, achieved significant model performance improvements, culminating in **a top-5 accuracy rate of 92%.**

Python GUI Simulation Project, UCI Mar 2020 - Jun 2020

- implemented a dynamic **OOP**, **Inheritance** and **GUI-based (tkinter)** simulation program allowing users to insert various objects within a virtual environment, showcasing distinct behaviors and interactions to simulate real-world scenarios.
- Assisted in **developing automated tests**, enhancing software quality and reliability. Participated in **code reviews**, learning best practices in software development and team collaboration.

PROFESSIONAL

Mathematics Tutor and TA, Irvine Valley College Aug. 2018 - Feb. 2020

- **Managing the math center** on weekends led to 2x more students showing up.
- Facilitated **4 different courses** in mathematics as a **professor assistant** by providing additional guidance to students during class or outside class in a workshop format. Assisting the college algebra course, led to a noteworthy increase of half a letter grade.
- **Privately tutored** students in a range of **coding languages,** including **Python, C, and C++**, as well as various software concepts.

IT Technician and Front-End Developer, DAPA Jun. 2015 - Jun 2016

- Managed end-to-end **setup and configuration of up to 50 desktops**, ensuring optimal performance and compatibility by selecting appropriate hardware components.Installed and **configured server-side and client-side software**, proficiently **troubleshooting IT issues** to minimize downtime and optimize productivity.
- Designed and implemented visually appealing websites using **HTML and CSS.** Practiced software development life cycle