Jagadev Veeranki

Open to Relocate | jagadev.veeranki@gmail.com | (+1) 571-640-0591

https://linkedin.com/in/Jagadev-Veeranki

Education

George Mason University, MS in Computer Science Aug 2023 – May 2025

- **Coursework:** Analysis of Algorithms, Machine Learning, Software Engineering, Wireless and Mobile Computing, Data Mining.

Skills

Programming Languages: Python, Java, SQL, OOP, Javascript, typescript
Core CS Concepts: Data Structures, Algorithms, Database Management
Machine Learning / AI: Machine Learning, Deep Learning, Text Classification, Transformers, Sklearn, PyTorch, Keras, Spacy, NLTK
Data Analysis & Visualization: Jupyter Notebook, NumPy, Pandas, Matplotlib, Altair, Tableau, Power BI
Full-Stack / Web Development: Spring Boot, Vue.js 3, MySQL, RESTful APIs, JPA, Hibernate, Axios, Vite, Bootstrap 5, Postman, IntelliJ IDEA
Tools & Frameworks: Docker, Git, Streamlit, RESTful APIs, Agile Framework

Projects

Survey Management Web Application

- Developed a full-stack web application for collecting and managing survey responses using Spring Boot and Vue.js.
- Designed RESTful APIs with CRUD operations and integrated them with dynamic Vue components via Axios.
- Implemented MySQL-backed database with JPA/Hibernate for efficient and secure data persistence.
- **Tools:** Spring Boot, Vue.js 3, MySQL, JPA, Axios, Bootstrap 5

Blood Glucose Prediction
github.com/Jagadev-Veeranki/Blood-Glucose-Prediction

- Cleaned, normalized, and aligned food diary entries with CGM data to generate a unified dataset enabling accurate modeling of glucose response.
- Engineered TF-IDF-based nutritional features and glucose deviation metrics to predict glycemic response patterns.
- Prepared robust training/test sets supporting machine learning workflows and improving model accuracy.
- **Tools:** Python, Scikit-learn, Pandas, NumPy

HDR with Neural Networks
github.com/Jagadev-Veeranki/...-Mobile-Networks

- Implemented and compared three neural architectures (VGG, MobileNet, BNN) on MNIST to evaluate performance on unseen data.
- Achieved over 97% test accuracy; converted models to TensorFlow Lite and deployed on a mobile device.
- Analyzed trade-offs between model size and prediction quality.
- **Tools:** Python, TensorFlow, TensorFlow Lite, Mobile Computing

Scientific Data Visualization Tool

- Created visualization pipeline to generate contour plots and graphs from structured datasets.
- Parsed and rendered images using NumPy arrays integrated with ParaView for scientific exploration.
- **Tools:** Python, ParaView, NumPy

Healthcare System in a Blockchain Environment

- Developed a blockchain-based secure healthcare platform supporting patient-doctor communication and data storage.

- Implemented mutual authentication protocol for identity verification and secure transactions.
- Designed a web portal for intuitive access to medical records and appointment scheduling.
- **Tools:** Python, Blockchain (conceptual), Hashing Algorithms, Web Technologies

Certifications

Amazon Web Services Amazon Developer Associate