Prithvi Vasanth Kumar

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2years for AI/ ML & Software Engineer experience

Summary
Dynamic AI Engineer with a strong foundation in Machine Learning and a proven track record of developing scalable, intelligent systems. Skilled in building AI-driven applications, multi-agent systems, and advanced automation tools to enhance user engagement and operational efficiency.

Education
University of Massachusetts Boston, MA   2022-2024
     Master of Science in Computer Science, Graduated MS - 05/2024
PES University, Bangalore, Karnataka, India   2017-2021
     Bachelor of Technology in Computer Science and Engineering

Core Technical Skills
- **Languages:** Python, Java, C, JavaScript, Shell Scripting, Dart
- **Web Technologies:** HTML5, CSS, JavaScript, React JS, Node.js, Bootstrap, Selenium, Apache Tomcat
- **Frameworks:** LangChain, TensorFlow, Keras, TfLearn, Beautiful Soup, Scikit-learn, ReactJS, Flask, Django
- **Database:** PostgreSQL, NoSQL (MongoDB)
- **Developer Tools:** Huggingface, AWS, NumPy, NLTK, Pandas, Jupyter Notebook, Sublime Text, GitHub, Docker, Postman, RabbitMQ, Zookeeper, Google Colab, Junit

Work Experience
- **AI Engineer Intern, FlowAI, Wilmington, Delaware, USA**   08/24 – Present
  - Collaborating on the development of "Flow Nebula," a multi-agent application automating lead information extraction, boosting throughput by 40%.
  - Engineered 5 specialized agents for tasks such as data collection, validation, parsing, qualification and CRM integration using Python.
  - Designing and prototyping ML model integration to enhance system intelligence over time.
- **Student Intern, atsign, San Jose, California, USA**   01/23 - 05/23
  - Consistency testing of communication between a java server and dart client and vice versa.
  - Improved testing efficiency by 30% by developing automated shell scripts to verify compatibility of keys through client server architecture.
- **Associate Software Engineer, Accenture, Bangalore, Karnataka, India**   06/21 - 02/22
  - Project -Dominion Energy – Virginia and North Carolina.
  - Utilized SAP IS-U - Design Device Management module for the business process.
  - Reduced faulty devices (smart meter) by 15% through rigorous testing and quality assurance.

Independent Technical Projects
- **Music Coach Application: AI-Powered Vocal Analysis Tool**   11/24 – Present
  - Developed a music coaching application utilizing Python, Flask, Node.js, and ReactJS to analyze vocal differences between user recordings and original songs, providing personalized feedback.
  - Integrated OpenAI's GPT-4 model to deliver AI-driven insights, enhancing user engagement by 35%.
  - Employed Librosa for audio feature extraction, enabling precise analysis of tempo, pitch, and timbre, which improved feedback accuracy by 40%.
  - Designed a user-friendly interface with ReactJS, facilitating seamless user interactions and increasing satisfaction by 25%.
  - Implemented secure file handling and processing protocols, ensuring data integrity and user privacy.
- **FIT.AI: Intelligent Multi-Agent Fitness Application**   07/24 – 08/24
  - Developed an advanced fitness app using LangGraph, GPT-4-Turbo-Preview, and Tavily API to provide tailored health advice, increasing user engagement by 35%.
  - Implemented specialized agents for nutrition, workouts, mental health, sleep, hydration, posture, and injury prevention, enhancing personalized support by 40%.
  - Designed a user-friendly, intelligent interface to improve interaction with the agents, boosting user satisfaction by 25%.
  - Integrated the Tavily API to ensure the app stays updated with the latest health information and recommendations, improving data accuracy by 30%.
- **Image Classification**   01/24 - 04/24
  - Engineered and optimized models with data prep, PCA dimensionality reduction, and model training, resulting in enhanced generalization and higher accuracies on Fashion MNIST dataset.
  - Implemented overfitting mitigation techniques like dropout layers, adaptive learning rate scheduling, and ResNet blocks for enhanced performance.
  - Achieved notable test accuracies: 86.51% for Random Forest, 83.08% for SVM, 88.36% for RBF Kernel, and 91.46% for the CNN model proving it beneficial for image classification.
  - Utilized matplotlib for effective model performance visualization.

Certifications: AWS Certified Cloud Practitioner (Link)