PADMAVATHI KADIUM

California, United States

📞 +1 (571) 536-0369 ✉ kadiumpadmavathi1@gmail.com in linkedin github ☁ googlecloudskills

EDUCATION

California State University, Long Beach   **Jan 2025 - Dec 2026**
Master of Engineering in Computer Science   *Long Beach, CA*

SRM University, AP   **Aug 2020 - May 2024**
Bachelor of Technology in Computer Science in AI & ML   *Amaravati, AP*

EXPERIENCE

CSULB Office of IR&A   **Apr 2025 - Present**
Software Engineer   *Long Beach, CA*
- Architected and deployed scalable RESTful APIs using AWS Lambda with API Gateway, S3, DynamoDB, and Python based microservices to support iOS application, achieving 99.9% uptime under variable load.
- Implemented dynamic and responsive mobile features for iOS and Android using TypeScript, React Native, and Node.js, integrating with cloud backends and version control via Git to enhance user experience and and reducing infrastructure costs by 40%.

Evostra Ventures Pvt Ltd   **Jun 2024 - Dec 2024**
Web Developer Intern   *Hyderabad, India*
- Developed automated web scraping pipelines using Selenium, JavaScript from dynamic websites, integrating Azure OCR and RAG enhanced LLM workflows to improve data ingestion throughput by 25%.
- Engineered scalable data applications with React, HTML, and CSS front end and Django REST, implementing custom middleware for rate caching and validation to integrate Firebase Storage to automate structured data export and improve data availability by 70%.

Next Tech Lab   **Jan 2023 - May 2024**
Research Developer   *Amaravati, India*
- Developed a scalable Educational Data Automation platform using Node.js, Express.js, and Angular with a microservices architecture to automate student reporting workflows, reducing manual effort and processing time by 35%.
- Built secure RESTful APIs for seamless integration with external university and learning management systems using OAuth2 and JWT, implemented event driven communication with RabbitMQ, and optimized data management using MongoDB and MySQL, improving data retrieval speed by 50%.
- Enhanced reliability and deployment efficiency through automated testing with Mocha, Jest, Cypress, JUnit, and Selenium achieving 90% coverage using Docker based deployments on GCP using Vertex AI and CI/CD pipelines with SonarQube to maintain code quality and ensure smooth Agile delivery.

PROJECTS

LLM ChatBot | *Python, LangChain, Streamlit, Qdrant, LLaMA 3.2, Ollama, Hugging Face, Docker*   **Jan 2026**
- Developed a RAG chatbot enabling document related question answering by integrating semantic search with a local LLaMA 3.2 model for accurate, context aware responses.
- Implemented pipelines for PDF ingestion, OCR based text extraction, embedding generation using BGE embeddings, and vector retrieval using Qdrant deployed via Docker.

Mood App | *Kotlin, Python, Node.js, Hugging Face, PyTorch, SQLite, JSON*   **Aug 2025**
- Developed an AI based mood recognition system using DistilBERT for text sentiment and VGG16 for facial emotion detection, fine tuned on GoEmotions and FER2013 datasets. Optimized transformer and CNN model using PyTorch to enhance accuracy.
- Built a real time recommendation engine combining transformer embeddings with cosine similarity to generate personalized music playlists, integrated through a Node.js backend and Flutter frontend.

TECHNICAL SKILLS

Languages: Python, Java, C++, HTML/CSS, JavaScript, TypeScript, AngularJS, NodeJS, Express.js, .NET, Kotlin
Developer Tools/ Databases: VS Code, GCP, Eclipse, Azure, AWS, Android Studio, Xcode, Postman, Django, MongoDB, SQL
Technologies/ Frameworks: Windows, Linux, Git, Docker, Kubernetes, CI/CD, GitHub, Bootstrap, PostgreSQL, NoSQL, Spring, REST, React Native, Scikit-learn, TensorFlow, Keras, LightGBM, PyTorch, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Statsmodels, SciPy, Imbalanced-learn, Microsoft Word, Excel, PowerPoint

CERTIFICATIONS / ACHIEVEMENTS

- **Artificial Intelligence with Python** — *Harvard University*   **Nov 2025**
- **AWS Cloud Technical Essentials** — *edX*   **Jul 2025**
- **SRM Research Day** — *Gold Medals*   **2023 & 2024**