PADMAVATHI KADIUM

California, United States

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EDUCATION

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

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

EXPERIENCE

CSULB Office of Institutional Research & Analytics **April 2025 - Present**
Software Developer *Long Beach, CA, USA*
- 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 **June 2024 - December 2024**
Web Developer Intern *Remote, India*
- Developed automated web scraping pipelines using Selenium, JavaScript from dynamic websites, integrating Azure OCR and RAG enhanced LLM workflows to improve data understanding and retrieval, increasing 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 **January 2023 - May 2024**
Research Developer *Amaravati, AP, 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

Mood App | *Kotlin, Python, Node.js, Hugging Face, PyTorch, SQLite, JSON* **August 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.

Natural Gas Price Prediction | *Python, ARIMA, XGBoost, LSTM, Pandas, Matplotlib* **March 2025**
- Developed and fine tuned ARIMA, XGBoost, and LSTM for multivariate time series forecasting of natural gas prices.
- Optimized hyperparameters, engineered lag based temporal features, and applied walk forward validation to improve generalization, achieving low RMSE and MAE across test sets.

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* **November 2025**
- **AWS Cloud Technical Essentials** — *edX* **July 2025**
- **Analyzing the Health Data: An Application on Sequential Pattern Mining** — *IEEE* **December 2024**
- **Analyzing Health Data: An Application of High Utility Item Mining** — *IEEE* **November 2023**
- **SRM Research Day** — *Gold Medals* **2023 & 2024**