

PADMAVATHI KADIUM

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EDUCATION

California State University, Long Beach - 3.67

Master of Engineering in Computer Science

January 2025 - December 2026

Long Beach, CA

SRM University, AP - 3.85

Bachelor of Technology in Computer Science in AI & ML

August 2020 - May 2024

Amaravati, AP

EXPERIENCE

CSULB Office of Institutional Research & Analytics

Software Developer

April 2025 - Present

Long Beach, CA, USA

- Architected and deployed stateless APIs using AWS Lambda with API Gateway, S3, DynamoDB, and Python based microservices achieving 99.9% uptime under variable load, and reducing infrastructure costs by 40%.
- Implemented dynamic and responsive web features with TypeScript, React, and Node.js, integrating them with cloud backends and version control using Git to improve user experience and streamline workflows for reliable solutions.

Evostra Ventures Pvt Ltd

Web Developer Intern

June 2024 - December 2024

Remote, India

- Developed automated web scraping pipelines using BeautifulSoup, Scrapy, Selenium, and JavaScript to extract, clean, and process unstructured data from dynamic websites, increasing data ingestion throughput by 25%.
- Engineered scalable data applications with a 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

Research Developer

January 2023 - May 2024

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, Docker based deployments on GCP, 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, AWS, Android Studio, Xcode, Postman, Django, MongoDB, SQL

Technologies/ Frameworks: Windows, Linux, Git, Docker, Kubernetes, CI/CD, Jenkins, Terraform, 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 / PUBLICATIONS

• 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