

Eshika Sanjana Konyala

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SKILLS

Languages: Python, JavaScript, SQL, C++.

Frameworks & Technologies: Django, React, Streamlit, REST API Development, CI/CD Pipelines.

Machine Learning: Scikit-learn, Pandas, NumPy, Model Evaluation.

Databases: PostgreSQL, SQLite.

Tools & Platforms: Git, GitHub, Jenkins, Generative AI (Gemini API), Chart.js.

EXPERIENCE

ZedconX, India

Jun 2023 – Aug 2023

Software Development Intern

- Engineered high-performance REST APIs, boosting efficiency by 30% through optimized query structures and endpoint design.
- Developed interactive data-visualization dashboards using Django and Chart.js to support actionable insights.
- Ensured system scalability and data integrity through collaboration with cross-functional engineering teams.
- Built reusable, modular UI components to improve consistency and accelerate development across projects.

Key Technologies: Django, REST API, PostgreSQL, Caching, Responsive UI Design

PROJECTS

Smart Price Prediction System

Sep 2025 - Nov 2025

- Developed a machine learning pricing model leveraging hardware features and advanced regression algorithms.
- Optimized model performance through robust data preprocessing and feature engineering pipelines.
- Evaluated multiple algorithms (Linear Regression, Random Forest, Gradient Boosting), achieving 85–90% R^2 accuracy.
- Deployed a scalable, interactive Streamlit application for real-time price predictions.

Tech Stack: Python, Pandas, NumPy, Scikit-learn, Streamlit, Pickle, Matplotlib.

AI-Powered Student Assistant Chatbot

Jan 2025 - Apr 2025

- Developed a conversational AI chatbot using the Gemini API, delivering contextual and natural-language responses.
- Built secure backend REST APIs and integrated database connectivity for dynamic content retrieval.
- Performed automated testing to ensure API reliability, scalability, and optimal performance.

Tech Stack: React, Python, REST API, PostgreSQL, Generative AI.

Expense Management Web Application

Aug 2024 - Nov 2024

- Designed a full-stack expense tracker with secure user authentication and role-based authorization.
- Implemented RESTful APIs supporting secure CRUD operations with robust data validation.
- Built automated reporting and analytics for weekly and monthly expense summaries.

Tech Stack: Node.js, REST Framework, PostgreSQL, React, JWT Authentication, CI/CD.

EDUCATION

Virginia Commonwealth University (CGPA: 3.80)

Richmond, Virginia

Master's in Computer Science

2024 – 2025

Koneru Lakshmaiah University (CGPA: 9.02)

Hyderabad, India

Bachelor's in Computer Science Engineering (Honours)

2020 – 2024

CERTIFICATIONS & PUBLICATIONS

- Oracle OCI-2025: Generative AI Professional [\[link\]](#)
- Published a Paper: “Comparative Analysis of Action Recognition Models: Investigating CNN with LSTM for Optimal Performance” in **IEEE Xplore**.