RITVIK KATAKAM

Hyderabad, Telangana

📞 8712709640 ✉ katakamritvik1@gmail.com 🔗 ritvik-katakam-b7737a328 ⭘ RitvikKatakam

EDUCATION

National Institute of Technology Karnataka, Surathkal — Dec 2021 – May 2025
B.Tech in Artificial Intelligence - CGPA - 5.55 — *Surathkal, India*

SriChaitanya Junior Kalasala May 2019 – Oct 2021 MPC - **Score - 73.%** Hyderabad, India

EXPERIENCE

Data Analyst Intern - Tata Consultancy Services | Python/PowerBi — **Dec 2024 - Feb 2025**
- Worked on the real world project 'Transaction Analysis Dashboards'
- Used **Python** for data preprocessing, cleaning, and analysis.
- Gained experience in integrating Python scripts with Power BI for dynamic visuals.

PROJECTS

Sports Celebrity Image Classification — CV | Data Science
- Built a Sports Celebrity Image Classification system using Haar cascades and OpenCV for face detection and recognition.
- Implemented and compared three models: **SVM**, **Logistic Regression**, and **Linear Regression**; achieved highest accuracy of 72% using Logistic Regression.
- Applied PCA for dimensionality reduction and deployed the real-time classifier using Flask.

Attendance System | Blockchain
- Developed a decentralized attendance and reward system using Ethereum blockchain to enhance transparency and security.
- Leveraged a custom ERC-20 token, **"AttendToken (ATD)"**, to incentivize student participation.
- Implemented smart contracts for secure attendance tracking and transparent reward distribution.
- Enabled students to view their attendance records and ATD redemption history through a user-friendly interface.
- Proposed **Zero-Knowledge Proof (ZKP)** integration for anonymous verification of attendance and token balances.
- Gamified student participation and ensured scalability via flexible token minting mechanisms.

Grocery Store Application | Full Stack Development
- Developed a full-stack grocery application to manage products, orders, and inventory using Python (Flask) and MySQL.
- Implemented core features like order placement, product management, and dynamic dashboards with real-time data updates.
- Integrated Power BI and Python for generating sales analytics and transaction visualizations.
- Enabled secure and efficient backend with REST APIs and modular SQL operations.
- **Designed for small retail stores to digitize their daily operations and reporting.**

TECHNICAL SKILLS

Languages: C, C++, Python, MySQL, Power BI, Java

Developer Tools: VS Code, Pycharm, Google Colab, TensorFlow, Keras

Courses: Data Structures and Algorithms, Data Science, Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Computer Networks, Probability & Statistics, Quantum Computing

Publications
- **Framework for Personalized Music and Lyrics Generation** – An AI-based approach to custom audio content tailored to user mood and context.

Certifications
- Power BI Certification (Great Learning)
- Data Science Certification (Analytics Vidhya)