Tumu lava karteek

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EDUCATION

Btech Artificial Intelligence and Data Science,   2022 – present | CGPA : 8.05
Chennai Institute Of Technology

PROFESSIONAL EXPERIENCE

Airports Authority of India, *Development Inten (Onsite)*   Aug 2024 – Sep 2024, chennai
Developed a data analysis application and dynamic website, reducing data processing and visualization time by up to 70%, Led design and implementation of a **Python–Flask + Tkinter** analytics platform for GEM portal operations, ingesting 500K+ records/day cutting manual effort by **8 hours/week** and assisted in hosting the website in private network in airport's it dept.

Statix.pro, *Business Analyst cum Web dev intern (Startup)*   Jun 2024 - Jul 2024, Erode
During the internship, conducted SWOT and competitive analysis for KSRCT College, delivering strategic insights inturn that improved decision-making upto **25%**, optimizing institutional strategies and resource allocation for better efficiency metric. This also helped as I Designed and implemented a **responsive web platform** using **React.js, HTML, CSS, and JavaScript** enhancing UX for **1,000+ monthly users** through improved navigation and cross-device performance allowing the customers quick navigation.

PROJECTS

LipReadX, *Python,OpenCV,Tensorflow,numpy,matplotLib*
Developed lip-reading system using **Python, OpenCV, TensorFlow, and NumPy,** accurately interpreting speech from lips. Implemented advanced computer vision and deep learning models to enhance recognition accuracy, visualized results with Matplotlib.

AeroInsight, *Python, Flask, Tkinter,Figma*
AeroInsight is a data analysis application and website developed during my internship at the Airports Authority of India (AAI). Streamlined data analysis for GEM portal operations, reducing analysis time by **70%** and improving operational efficiency. Designed the platform using **Python, Flask, Tkinter, and Figma** to enhance data visualization and reporting as a desktop app.

Csv Chatbot, *Python, Pandas, Streamlit, Langchain*
Built an intelligent chatbot interface that enables users to interact with CSV files conversationally. Leveraged **Langchain** and **LLMs** to interpret queries, extract insights, and summarize data from Structured files. Designed with **Streamlit** for interactive UI, allowing seamless data querying without technical expertise. Simplified data analysis workflows for non-technical users.

ACHEIVEMENTS

Secured **Elite** Grade in Introduction of Internet of Things -NPTEL **(Top 5%)**
Semifinalist in Tcs Codevita Season 11
Semifinalist for the semifinal round in CIT hacker rank
Semifinalist in Techgium

SKILLS

- Python
- MySQL
- C,C++
- Java
- Git & GitHub
- AWS
- Eclipse/Netbeans
- Flask
- NodeJs
- ReactJs
- NLTK
- Docker

COMPETITIVE PROGRAMMING

leetcode: Achieved the highest contest rating of 1600 (Top 31.3%) demonstrating strong problem-solving skills. 🔗

Codechef: Reached the highest contest rating of 1426 (2 Star) reflecting active contest participation. 🔗

CERTIFICATES

- Aws cloud practitioner 🔗
- Cloud Computing -NPTEL (Silver Rank)
- UIPath Automations Explorer (Automating Tasks)
- Build, Train and Deploy ML Models with Keras on Google Cloud
- Google Cloud Big Data and Machine Learning Fundamentals
- Introduction to Internet of Things -NPTEL(Top 5% score)
- Python and Machine Learning for Beginners - Udemy
- Foundations Data: Data Everywhere - Coursera
- Python for Data Science, AI & Development
- CCNA1 Introduction to Networks - Cisco

VOLUNTEERING

Volunteered at **Chennai Youth Assembly - Season II,** leading quality education initiatives, including book drives, infrastructure improvements, and fundraising for under-resourced schools. Drug awareness sessions were also conducted.

Assisted physically challenged students at **Vels college**, providing support and ensuring accessibility in academic and daily activities. The Children were allowed to play and also danced and sang songs they were encouraged to actively participate.