Muthu Chitra U.S

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GitHub
LinkedIn
Portfolio

SKILLS

Programming Languages	Python, Java (Basics)
Tools & Platforms	GitHub, Vercel,Figma, Linux,Jupyter Notebook, Power BI
Frameworks & Libraries	Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn, Plotly
Databases & Query Languages	MySQL, MongoDB

EXPERIENCE

Full Stack Developer   **July 2023**
8 Queen's software Technology   *Chennai*
- Created responsive web pages using **HTML, CSS, and JavaScript** as part of **Real-time project tasks.**
- Designed **user-friendly interfaces** for internal tools and forms.
- Improved web pages by making changes based on instructions for **better design and usability**, and used Git for version control to manage code updates.

PowerBi Intern   **May 2024**
Cognifyz Technologies   *Virtual*
- Data Cleaning And Exploration : **Utilized Power BI, data preprocessing,** and **segmentation techniques**, to analyze user behavior and gender-based investment patterns.
- Dashboard Design And Development: **Real-time dashboard with KPIs, filters, slicers to visualize**investment trends, user objectives, and information sources.
- Data Visualization And Insight Generation: Applied data storytelling, **pattern recognition, and business intelligence (BI)** skills to convert raw data into **actionable insights** and **support decision-making**.

PROJECTS

Sentify Pro – Advanced Sentiment Analysis Web Application
- Built an interactive sentiment analysis tool combining VADER and TextBlob for detailed polarity and subjectivity insights.using **Streamlit, NLTK, TextBlob, VADER, Matplotlib** and **Python**
- Implemented sentence-level sentiment breakdowns and rich visualizations using **Matplotlib**.
- Deployed with **Streamlit** for a seamless and user-friendly interface..

Smart Agro Advisory System
- Developed a full-stack agriculture platform offering personalized crop and fertilizer recommendations.**ReactJS, FastAPI, Python, MongoDB**
- Integrated a **CNN** based plant disease detection feature using image analysis.
- Delivered real-time insights via a **FastAPI** backend and an intuitive **ReactJS** frontend.

Road Accident Analysis using Power BI
- Created a dynamic dashboard to analyze and visualize road accident data in Tamil Nadu using **Power BI**
- Created useful numbers like how many people were hurt in accidents using **DAX** formulas to better understand the seriousness and find patterns.
- Added easy-to-use tools like **dropdowns, filters, and maps** so people can look at accident data by district, time, and type—helping them stay aware and improve road safety.

EDUCATION

P.S.R.R College Of Engineering   **2021 — 2025**
Bachelor of Engineering in ComputerScience — 8.26 CGPA   *Sivakasi, Tamilnadu*
Coursework: Algorithms And Data Structures, Operating System, Database Management Systems, Computer Networks.

C.K.T Matriculation Higher Sec School   **2020-2021**
80%   *Ettaiyapuram, Tamilnadu*

ACHIEVEMENTS

- Earned Information Technology Specialist (ITS) - Python Badge with a score of 860/1000   [Apr 2024]
- Attended Ideathon '23 (Product Design First Prize)   [Oct 2023]
- Attended TECHFIRM '24 (Project Expo Second Prize)   [Mar 2024]

CERTIFICATES

- **ITS-303** Python Certificate Exam |link|
- Data Analytics and Visualization |link|
- Linux Complete Course |link|