Padmapriya S

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PROFESSIONAL SUMMARY

Results-driven AI and Data Science student with hands-on experience in Python development, machine learning, and end-to-end project delivery. Proven expertise in building scalable backend services, data-driven applications, and AI-powered systems. Strong problem-solving skills with experience in SQL databases, API development, and leveraging AI-assisted tools to accelerate development. Eager to contribute to AI-powered supply chain automation and enterprise software solutions.

EDUCATION

K.Ramakrishnan college of Technology,Samayapuram,Trichy.   Sep 2023 – Present
B.tech., Artificial Intelligence and Data science.

- CGPA: 8.20 (upto 4th Sem).

ARC Kamatchi matriculation Higher Secondary School, Mayiladuthurai.   June 2021 – May 2022
Higher Secondary Certification.

- Percentage: 89%

SKILLS

Programming Languages: Java, C, Python, SQL.
Web Development: React, Streamlit, FastAPI(basics)
AI/ML Technologies: Machine Learning, Deep Learning, NLP, TensorFlow, PyTorch,
LangChain concepts.
Databases: MySQL,Postgre SQL, SQL query optimization.
AI-Assisted Development: GitHub Copilot, ChatGPT, Gemini (for code acceleration
 and optimization).
Domain Knowledge: Data Science lifecycle, EDA, predictive modeling, automation.

Languages Known: Tamil, English.

Technical Skills: Artificial Intelligence, Machine Learning algorithms, Deep Learning, NLP, Networking and its Protocols, IP Addressing, Data Science and Analytics, Data visualization, Object-Oriented programming, UI/UX,Ms Excel,EDA.

Soft Skills: Quick Learning, Problem Solving, Verbal and Written Communication, agile methodology, independent work, Teamwork and Collaboration.

Tools and Frameworks: Figma, Canva, Github, CISCO Packet Tracer, Kali Linux, VS code, My SQL, PowerBI, Pytorch, Streamlit.

INTERNSHIPS

Data Analyst Intern, UnifiedMentor – Remote,Trichy.   Jan 2024 – Feb 2024
- Built an end-to-end car damage detection system using YOLOv8, trained on real accident datasets to identify dents, scratches across multiple car models.
- Used Streamlit to create a real-time CV dashboard, allowing users to upload accident images and receive instant damage analysis.
- Collaborated with a team to integrate the models into a larger insurance claim automation system, simulating real-world industrial use cases.

Data Science Intern, Skillcraft Technology - Remote,Trichy.   Feb 2025 – Feb 2025
- Gained hands-on experience in the end-to-end Data Science lifecycle, including data collection, preprocessing, EDA, model building, and result interpretation.
- Performed Exploratory Data Analysis (EDA) and correlation analysis to identify key drivers of business outcomes in domains like sales, and healthcare.

Data Analysis Intern, Cognifyz Technologies – Remote,Trichy.   Jan 2025 – Feb 2025
- Conducted data cleaning, validation, and exploratory data analysis to transform raw datasets into structured, analysis-ready formats.
- Utilized statistical and analytical techniques to identify trends, patterns, and insights that support data-driven conclusions.
- Developed dashboards, visualizations, and concise analytical reports to clearly communicate findings to non-technical stakeholders.

PROJECTS

Rhenumatoid Arthiritis Detection using Deep learning and Machine Learning
- Performed data preprocessing, region-of-interest extraction, and feature analysis on medical ultrasound images to support automated disease detection.

- Applied machine learning and deep learning techniques, including texture feature extraction and CNN-based models, to analyze and classify complex imaging data.
- Evaluated model performance using standard analytical metrics (accuracy, precision, recall, sensitivity) to ensure reliable and data-driven outcomes.

Disease Prediction Using Machine Learning

- Built a machine learning model using LightGBM and CatBoost to predict diseases based on multi-symptom user input.
- Processed medical datasets, engineered features, and achieved high accuracy through model evaluation and tuning.
- **Tools and Algorithms Used:** Pandas, NumPy Scikit-Learn,LightGBM, CatBoost, Naive Bayes Algorithm.

CERTIFICATIONS

AWS certified solution architect-ASSOCIATE – AWS(GLOBAL CERTIFICATION)

Generative AI for Software Development- GUVI

Python For Data Science- IBM.

Data Scientist- SIMPLILEARN COLLABORATED WITH IBM.

Machine learning and deep learning-fundamentals and applications- NPTEL.

My SQL Explorer- ORACLE.

Data Science for Engineers- NPTEL.

Generative AI Master class- Acceleratorx.