

DANUSH SV

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SUMMARY

Driven **data scientist** with a strong desire to build intelligent systems and extract insights from **data analysis**. Skilled in **AI and machine learning techniques** to solve complex problems and streamline workflows. Exploring the intersection of **data science and software development** to deliver scalable solutions that create measurable impact.

EDUCATION

Shiv Nadar University Chennai, B.Tech. Computer Science and Engineering 2026
Course Work: Data Structures and Algorithms, ML, AI, Software Development, DBMS, Cloud Computing

EXPERIENCE

ML Engineer Intern – Promantus India Private Limited 🌐 June 2025 – July 2025

- Developed and integrated backend scripts for preprocessing and cleaning large unstructured datasets, reducing model training time by **35%** and significantly improving pipeline throughput.
- Designed and tested RESTful API endpoints for GenAI services using Postman, streamlining model deployment workflows, and improving integration testing coverage by **40%**.
- Fine-tuned a transformer-based language model for enterprise documentation summarization, achieving a **26%** improvement in content condensation accuracy and enhancing downstream NLP task performance.
- Tools Used:** Python, Pandas, NumPy, Scikit-learn, Hugging Face Transformers, FastAPI, Postman, Git.

PROJECTS

Telehealth AI Diagnostic Platform - RemoteCura 🌐

- Developed an AI-driven telehealth platform featuring a chatbot with voice and text-based symptom inputs and predictive models for medical image classification, enabling comprehensive disease detection across specialties.
- Tools Used:** Python, PyTorch, Streamlit, CUDA, Transformers, Scikit-Learn

Museum Ticket Chatbot 🌐

- Developed a chatbot-powered ticketing system enabling seamless museum ticket booking and cancellation with real-time SQL database connectivity, multilingual support in 8 languages, and data analytics for user insights.
- Tools Used:** Python, Streamlit, LangChain, ChatGroq, SQLAlchemy, Clever Cloud, Azure API

DDoS Attack Detection System 🌐

- Built an anomaly detection system using K-Means clustering on web server logs, applying unsupervised machine learning for identifying DDoS attack patterns. Evaluated model performance using the silhouette score to ensure optimal cluster separation.
- Tools Used:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Pickle

SKILLS

Programming Languages: Python, SQL, R, Java

AI & Machine Learning: Classification & Regression Models, Exploratory Data Analysis, Deep Learning, Gen-AI, Computer Vision, Natural Language Processing, MLOps

Frameworks / Libraries : PyTorch, Streamlit, CUDA, LangChain, ChatGroq, Scikit-learn, Transformers, NumPy, Pandas, Matplotlib, OpenCV, SQLAlchemy, Hugging Face Transformers, FastAPI

Tools & Technologies: MongoDB, MySQL, Azure API, Clever Cloud, PowerBI, Unix/Linux Environments, Tableau, Git, Postman, Pickle

Soft Skills: Leadership, Communication, Team Player, Adaptability, Time Management, Problem Solving

CERTIFICATIONS

- Udemy: The Complete Python Pro Bootcamp Professional Certification
- Udemy: Machine Learning Professional Certification
- Postman: API Fundamentals Student Expert Certification