PAVAN KRISHNA. P

"Versatile Data Enthusiast"

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GitHub | LinkedIn

📌 PROFILE

Analytical and impact-driven Data Science postgraduate skilled in building end-to-end ML/NLP systems, real-time AI tools, and automated pipelines. Experienced with API integration, containerization, and cross-functional collaboration. Looking to contribute to GenAI-driven product development.

💼 INTERNSHIPS

Data Science Intern — *Crest Climber Software Solutions, Chennai*
Dec 2024 – Apr 2025

- Fine-tuned Modern-BERT on 10K synthetic texts; achieved 94.8% sentiment classification accuracy.
- Built end-to-end ML pipeline integrated with N8N; automated campaign workflows, cutting manual effort by 80%.
- Created Power BI dashboards from PostgreSQL data for real-time sales KPI tracking.
- Developed a WhatsApp AI bot using N8N for doctor recommendations and clinic queries.

Data Visualization Intern — *Regional Meteorological Centre, Chennai*
May 2024 – Jun 2024

- Cleaned and analyzed 94K+ hourly weather records (2013–2023) using Python and Tableau.
- Found strong correlation patterns between temperature, humidity, and Discomfort Index (DI).
- Identified key DI thresholds (24–27°C common; >32°C rising); emphasized hour-level resolution.

🚀 PROJECTS

Business Process Automation System (link)
Python, PostgreSQL, N8N, Apify, Power BI, Google Gemini

- Scraped social media data with Apify; ran sentiment analysis via fine-tuned BERT.
- Automated CRM using N8N and Gemini; enabled real-time campaign execution and tracking.

Discomfort Index Forecasting System (DIFAS) (link)
Python, Flask, BiLSTM, Prophet, Twilio, Plotly, Open Meteo API

- Predicted DI using BiLSTM (93% accuracy); displayed it in website dashboard.
- Sent real-time alerts via Twilio; interactive plots via Plotly; API-linked for weather input.

LLM-Powered Job Outreach Assistant (link)
FastAPI, MongoDB, Google Gemini, Hunter.io, SMTP, Docker, Render

- Built AI-based job outreach tool with recruiter email lookup and LLM-crafted mails.
- Included tracking pixel and lead-response logging in MongoDB; Dockerized and deployed on Render.

📜 CERTIFICATIONS

- Python for Data Science – Coursera
- What is Data Science? – Coursera
- Learning Power BI Desktop – LinkedIn
- AWS Cloud Practitioner Essentials - AWS

🎓 EDUCATION

M.Sc. Applied Data Science
SRMIST, Kattankulathur
CGPA: 8.32 | Jul 2023 – May 2025

B.Sc. Statistics
Loyola College, Chennai
CGPA: 6.94 | Sep 2020 – Jul 2023

🛠 TECHNICAL SKILLS

Programming: Python, R, SQL

ML & NLP: Scikit-learn, Modern-BERT, Deep Learning, LSTM, Sentiment Analysis

GenAI & LLMs: Google Gemini, Gemini API, LangChain *(learning)*, OpenAI API *(familiar)*, Prompt Design

Data Processing: Pandas, NumPy, N8N, Webhooks, PostgreSQL, MongoDB

APIs & Backend: FastAPI, Flask, Twilio, SMTP, Jinja2

Visualization: Power BI, Tableau, Plotly, Matplotlib, Seaborn

DevOps & Deployment: Docker, Render, Git, VS Code

Platforms & Tools: Google Colab, Cursor, HuggingFace, LangSmith *(learning)*, Cline, RStudio

Analytics: EDA, Time Series Analysis, Forecasting, Statistical modelling

💡 SOFT SKILLS

- Problem Solving
- Critical Thinking
- Team Collaboration
- Adaptability
- Curiosity
- Continuous Learning

🌐 LANGUAGES

English • Tamil • Telugu (native)