Sahil Karande

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Professional Summary

Motivated and detail-oriented engineer with strong experience in **Python-based AI/ML development**, with emphasis on **Natural Language Processing**, data modeling, and algorithm design. Hands-on exposure to **model training**, **validation**, and real-time deployment using tools like **Streamlit**, **MongoDB**, and **AWS**. Demonstrated leadership in driving data-driven solutions and developing end-to-end dashboards and pipelines for actionable insight.

Education

PG Diploma in Big Data Analytics   *Feb 2025 – Aug 2025*
Centre for Development of Advanced Computing, Mumbai, MH

B.Tech in Computer Engineering   *Jul 2020 – Jul 2024*
St. Vincent Pallotti College of Engineering Technology, Nagpur, MH | **CGPA:** 8.13/10

Skills

- **Programming Data Handling:** Python, Java, SQL, Pandas, NumPy

- **Machine Learning AI:** Scikit-learn, PyTorch, TensorFlow, NLP, ML Pipelines

- **Big Data Streaming:** Spark, PySpark, Hadoop, Kafka, Real-time Processing

- **Visualization Analytics:** Tableau, Power BI, Streamlit, Matplotlib, Seaborn

- **Cloud Deployment:** AWS (EC2, S3, Lambda), Azure, Deployment, Databases (MySQL, MongoDB)

- **Professional Skills:** Communication, Collaboration, Time Management, Leadership

Projects

- **NeuroAI – Mood Detection via Voice & Text** — HuggingFace, Streamlit, Kafka, MongoDB
  Real-time emotion detection using **voice transcription + text classification** for mental health screening. Integrated Whisper/Wav2Vec with transformer models, processed via Streamlit and stored in NoSQL database.

- **Hotel Booking Cancellation Analysis** — Power BI, Excel, Data Visualization — GitHub
  Built an interactive dashboard to analyze cancellation trends across hotel types, using dynamic filters and market segment insights to support data-driven decision-making for hospitality revenue teams.

- **Used Cars Price Analysis Dashboard** — Python, Streamlit, Pandas, Plotly, Seaborn — Live Demo
  Developed an interactive dashboard analyzing 7,000+ listings to extract pricing trends based on brand, fuel type, location, and ownership. Included dynamic filters, KPIs, correlation analysis, and year-wise trends.

- **Furrify – A Pet Community Website** — PHP, MySQL, HTML, CSS, JavaScript
  Developed a dynamic web platform enabling pet adoption, community interaction, and access to veterinary resources. Engineered core features like user authentication, adoption listings, and forums to enhance engagement and usability.

Work Experience

IIOT Intern – Solar Industries India Limited, Nagpur   *Dec 2023 – Jun 2024*

- Developed 3 Streamlit apps for monitoring real-time KPIs.
- Automated analytics workflows with Python, reducing manual effort by 25%.
- Enhanced dashboards for anomaly detection, improving insight accuracy.
- Applied NLP and ML techniques to optimize production logs and error reports.

Data Science Intern – Clustor Computing, Nagpur   *Jul 2023*

- Created dashboards and reports from time-series stock data, increasing forecast precision.
- Streamlined data pipelines and presented insights during agile review sessions.
- Focused on building interpretable models using Python, Seaborn, and Power BI.

Achievements & Co-curricular Activities

- Technical Class Representative – CDAC DBDA Mumbai (2025)
- Presented paper at ICTIA 2024 on "Furrify: A Pet Community Website Link
- Technical Lead, GDSC SVPCET (2021–2023)