

Sainath Varma Nandimandalam

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SUMMARY

Data Science graduate with hands-on experience in **machine learning, deep learning, and predictive analytics**. Strong in **Python, SQL, computer vision, time-series modeling, and data visualization**, with industry exposure to **predictive maintenance and anomaly detection**. Experienced in building **end-to-end ML pipelines** and deploying models using **Streamlit and cloud platforms**.

EDUCATION

Bachelor of Technology, CSE – Data Science <i>Jain (Deemed-to-be-University), Bengaluru</i>	Aug 2021 – May 2025 <i>GPA – 8.05</i>
12 th Grade, MPC (Math, Physics, Chemistry) <i>Board of Intermediate Education, Andhra Pradesh</i>	June 2019 - May 2021 <i>Percentage – 81.4</i>
10 th , Secondary School Certification (SSC) <i>Edify International School, Andhra Pradesh</i>	May 2019 <i>Percentage – 76.6</i>

SKILLS

- Programming: Python (Pandas, NumPy), SQL (Advanced), Java
- Data Visualization & BI: Power BI, Tableau, KPI Reporting, Interactive Dashboards
- Relevant Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning, Statistics, Data Visualization, Big Data Analytics

EXPERIENCE

AI/ML Intern On Device Solutions Ltd. Hyderabad, Telangana.	Aug 2025 – Nov 2025
<ul style="list-style-type: none">• Orchestrated machine learning and deep learning models on SAP APM for predictive maintenance and RUL estimation, analyzing 120k+ time-series sensor records from industrial equipment.• Executed EDA and feature engineering on 8+ sensor parameters (pressure, temperature, flow, vibration), improving data quality and model readiness by approximately 20%. Deployed Isolation Forest for unsupervised anomaly detection, reducing false-positive alerts by ~25% and improving anomaly detection reliability.• Engineered LSTM-based time-series models to capture sequential failure patterns, enabling 15–18% earlier anomaly identification in machine operation cycles.	

PROJECTS

Brain Tumour Detection, Segmentation and Classification	Aug 2024 – Jan 2025
<ul style="list-style-type: none">• Developed a custom CNN using TensorFlow to detect brain tumors from 2,000 MRI images, achieving 86.6% accuracy.• Applied ResNet50 (transfer learning) for tumor segmentation on 512×512 MRI images, generating bounding boxes for localization.• Classified tumor types (Meningioma, Glioma, Pituitary) using a VGG-based CNN, achieving 83.4% accuracy.• Optimized the end-to-end computer vision pipeline to perform segmentation and classification only after tumour detection, reducing computational cost.	
Bank Loan Analysis Dashboard	May 2023 – June 2023
<ul style="list-style-type: none">• Built an interactive Power BI dashboard for bank loan analytics using 40k+ records, analyzing loan performance, payment trends, and customer demographics.• Designed dynamic reports with state-wise and month-wise analysis, utilizing slicers, KPIs, card visuals, and drill-through for detailed insights by loan grade and verification status.• Visualized key financial KPIs including year-wise loan amounts, grade-wise balances, and verified vs non-verified payments, enabling data-driven financial decision-making.	
PDF-Chatbot using Gemini 1.5 pro	May 2023 – June 2023
<ul style="list-style-type: none">• Developed a PDF chatbot leveraging Google Generative AI (Gemini 1.5 Pro) via Google API to provide intelligent responses to queries based on uploaded PDF documents.• Designed the workflow with agents and deployed to Streamlit cloud, the chatbot extracts and processes text from PDFs, enabling accurate and context-aware answers	

CERTIFICATIONS & REWARDS

- Coursera – 2023 SQL for Data Science
- Coursera – 2023 Data Analysis and Visualization with Power BI
- Udemy - 2023 Complete Python Bootcamp from Zero to Hero in Python.