

Sainath Varma Nandimandalam

sainathvarma12@gmail.com | [linkedin.com/in/sainathvarma2003](https://www.linkedin.com/in/sainathvarma2003) | github.com/NSainathVarma | +91 9515776426

EDUCATION

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

SKILLS

- Programming: Python (Pandas, Scikit-learn), Structured Query Language (SQL) - Advanced, Java
- Machine Learning: Predictive Modelling, Decision Trees, Neural Networks, Matplotlib, Scikit-learn
- Relevant Coursework: Data Structures & Algorithms, Computer Networks, Power BI, Tableau, Deep Learning

EXPERIENCE

AI/ML Intern On Device Solutions Ltd. Hyderabad, Telangana.	Aug 2025 – Nov 2025
<ul style="list-style-type: none">• Applied ML/DL techniques on SAP APM for predictive maintenance, anomaly detection, and Remaining Useful Life (RUL) estimation of machines.• Performed EDA and feature selection on hydraulic system sensor data (pressure, temperature, flow, vibration, etc.) to identify useful signals.• Implemented Isolation Forest for unsupervised anomaly detection and developed LSTM-based time series models for sequential anomaly analysis.• Collaborated on integrating sensor data analytics into predictive maintenance workflows, gaining exposure to industrial IoT applications	

PROJECTS

Brain Tumour Detection, Segmentation and Classification	Aug 2024 – Jan 2025
<ul style="list-style-type: none">• Designed and implemented a custom CNN using TensorFlow to accurately detect the presence of brain tumours from 2,000 MRI with 86.6% accuracy.• Utilized ResNet50 for precise tumour segmentation from a 512 x 512 size images, creating bounding boxes around affected areas for visual clarity in diagnostic imaging.• Utilized the segmented images to classify the tumour types (Meningioma, Pituitary, Glioma) using VGG-15 CNN model achieving a substantial accuracy of 83.4%.• Optimized workflow to trigger segmentation and classification only when a tumour is detected, minimizing computational overhead.	
Bank Loan Analysis Dashboard	May 2023 – June 2023
<ul style="list-style-type: none">• Developed an interactive and exploratory dashboard in Power BI for bank loan analysis project using 40k records, providing insights into loan statistics, payment trends, and customer demographics.• Designed dynamic reports including state-wise and month-wise loan status, with slicers, card visuals, and a page navigator for easy drilldowns and in-depth analysis of customer loan behaviour based on verified status and loan grades.• Tracked and visualized Key performance indicators (KPIs) such as year-wise loan amounts, grade/sub-grade-wise loan balances, verified vs. non-verified payment comparisons, and state/month-wise loan statuses, providing actionable insights for financial decision-making through dynamic Power BI dashboards.	
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 Data Analysis and Visualization with Power BI
- Coursera – 2023 SQL for Data Science
- Udemy - 2023 Complete Python Bootcamp from Zero to Hero in Python.