

SANATH KUMAR PV

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Technical Skills

Python (Pandas, NumPy, TensorFlow, SciPy, PySpark), SQL, PostgreSQL, Power BI, Tableau, Azure (Data Lake, Synapse, Databricks), AWS, Docker, Airflow, DBT, Git, Machine Learning (Linear/Logistic Regression, Decision Trees, Random Forest, SVM, CNN)

Summary

- Data and Machine Learning enthusiast with expertise in **machine learning algorithms** and **deep learning models** for predictive analytics and real-time decision-making. Extensive experience in **data migration**, **ETL pipelines**, and working with **cloud platforms** to deliver scalable and efficient solutions. Eager to contribute my technical skills in a fast-paced environment.

Project Experience

Brain Tumor Detection using Deep Learning | CNN, TensorFlow

- Developed a **Convolutional Neural Network (CNN)** model to detect brain tumors from MRI scans, achieving **90% accuracy**.
- Preprocessed large image datasets using **image augmentation** techniques to improve model generalization.
- Applied **data augmentation** to improve model robustness on unseen data.

Alzheimer's Detection using Deep Learning | CNN, Keras

- Built a deep learning model using **CNN** to classify Alzheimer's disease stages from MRI images.
- Improved the model by experimenting with different configurations and hyperparameters.

Credit Card Fraud Detection | Logistic Regression, Random Forest

- Created a machine learning pipeline to detect fraudulent credit card transactions using **Random Forest** and **Logistic Regression**.
- Achieved high accuracy by handling imbalanced data and adjusting the model for better performance.

Loan Approval Prediction | XGBoost, Decision Trees

- Developed a model to predict loan approvals using **XGBoost** and **Decision Trees**.
- Improved model accuracy by using cross-validation and tuning parameters.

Data Migration from On-Prem SQL to Cloud | Azure Data Lake, Synapse

- Orchestrated the migration of **10GB SQL Server data** to **Azure Data Lake Gen2**, reducing processing time by 30%.
- Built an ETL pipeline using **Azure Data Factory**, integrating SQL Server with Azure and automating data transformation tasks.

Education

Jain (Deemed-to-be University), Bangalore, India

Master of Computer Applications (MCA) | Expected Graduation: Feb 2026

The National College, Bangalore, India

Bachelor of Computer Applications (BCA) | Graduated: Apr 2023

Certification

- **Microsoft Power BI and Excel Data Analyst** – Coursera
- **PostgreSQL Certification** – LinkedIn Learning
- **Python Certification** – LinkedIn Learning

Languages

Fluent in **English, Hindi, Kannada, Telugu**.