

Fnu Abhijith

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## EDUCATION

Master of Science in Data Science

University of Memphis • Memphis, TN • 2025 • 3.1

Bachelor of Engineering in Information Science and Engineering

Don Bosco Institute of Technology • Bangalore, India • 2023 • 3.23

## SKILLS

- Programming Languages: Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), SQL, R, CSS, HTML
- Data Analysis & Manipulation: Data Cleaning, Data Wrangling, Exploratory Data Analysis (EDA), Feature Selection
- Data Visualization: Matplotlib, Seaborn, Plotly, Tableau, Power BI
- Big Data & Cloud Technologies: Apache Spark, Hadoop, Snowflake, AWS (S3, Lambda, SageMaker)
- Statistics & Mathematics: Probability, Hypothesis Testing, Linear Algebra, A/B Testing
- Soft Skills: Problem-Solving, Business Understanding, Data Storytelling, Communication

## EXPERIENCE

Data Analyst Intern

Brainovision solutions

September 2022 - November 2022, Bangalore, India

- Analyzed and cleaned large datasets of over 100 student profiles, improving data reliability by 20% and supporting strategic academic decisions.
- Designed interactive Tableau dashboards to visualize student engagement trends, driving a 15% increase in online program participation.
- Automated reporting workflows using Python (Pandas, NumPy) and Excel macros, reducing the time spent on manual reporting tasks by 25%.
- Partnered with advisors and marketing to implement data-driven enrollment strategies, boosting registrations by 18%.

Data Science Intern

Teachnook

January 2023 - June 2023, Bangalore, India

- Forecasted student performance with 85% accuracy using predictive models built in Python (Scikit-learn, XGBoost).
- Conducted exploratory data analysis (EDA) to identify patterns in student behavior and content strategies.
- Built automated data pipelines for collecting and transforming raw data, reducing manual data preparation time by 40%.
- Delivered insights and visual reports to stakeholders, enhancing student satisfaction and retention.
- Supported cross-functional deployment of data-driven marketing campaigns and academic interventions.

## PROJECT

Android Malware Detection Using Machine Learning and Deep Learning (Python, Scikit-learn, TensorFlow, PCA, Flask, Jupyter, Git)

University Of Memphis • [github.com/FnuAbhijith/Android-Malware-Detection-Using-Machine-Learning-and-Deep-Learning](https://github.com/FnuAbhijith/Android-Malware-Detection-Using-Machine-Learning-and-Deep-Learning)

- February 2025 - May 2025
- Developed and compared multiple machine learning and deep learning models (Logistic Regression, Random Forest, KNN, MLP, CNN) to detect Android malware using static features extracted from APK files.

- Applied feature selection (RFE) and PCA to reduce dimensionality (216 to ~150 features), improving accuracy and efficiency.
- Achieved 99% accuracy and 1.00 AUC with MLP + PCA on a benchmark Drebin-format dataset.
- Deployed the best-performing model via a Flask web app for real-time malware prediction using serialized models (joblib).
- Handled class imbalance with sampling techniques and evaluated models using precision, recall, F1-score, and ROC-AUC.

Municipal Debt Risk Prediction using Machine Learning (Python, Scikit-learn, CatBoost, MLP, Random Forest, Pandas,

Label Encoding, StandardScaler)

University Of Memphis • [github.com/FnuAbhijith/Municipal-Debt-Risk-Analysis-using-Machine-Learning](https://github.com/FnuAbhijith/Municipal-Debt-Risk-Analysis-using-Machine-Learning)

- September 2024 - December 2024
- Designed a predictive analytics system to forecast bad debts in municipal finance using real billing data from 8 South African municipalities.
- Engineered features and applied data preprocessing (label encoding, scaling, and missing value handling) on 2 years of payment records.
- Trained and evaluated CatBoost, Random Forest, and Multilayer Perceptron (MLP) classifiers to assess financial risk across diverse account types.
- Achieved 100% AUC and minimal misclassifications using CatBoost, outperforming MLP (0.99 AUC) and Random Forest on debt classification.
- Interpreted results via confusion matrices and ROC curves, identifying financial patterns that signal debt risk, enabling early intervention.

