Magesh K

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Career Objective

Detail-oriented **Data Analyst** skilled in Python, SQL, Excel, and Power BI, with experience in building dashboards, performing statistical analysis, and developing machine learning models. Seeking a Data Analyst role to apply analytical thinking, data cleaning, visualization, and problem-solving skills to deliver actionable business insights.

Education

Bachelor of Technology in Artificial Intelligence and Data Science   May 2026
IFET College of Engineering, Villupuram
CGPA: 7.6

Technical Skills

Data Analysis Tools: Power BI, Excel (Pivot Tables, VLOOKUP, Dashboards), Google Sheets
Programming: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL
Databases: PostgraSQL, MySQL
Machine Learning: Scikit-learn, TensorFlow, XGBoost (Basic)
Data Tasks: Data Cleaning, Preprocessing, EDA, Feature Engineering, Correlation Analysis, Data Visualization
Statistics: Mean, Median, Mode, Standard Deviation, Variance, IQR (Interquartile Range)
Version Control: Git, GitHub

Projects

Breast Cancer Detection and Segmentation Using PGSS U-Net and MeraNet
Tools: Python, TensorFlow, Keras, Streamlit

- Implemented a dual deep-learning pipeline for mammogram segmentation and classification using PGSS U-Net and MeraNet.
- Achieved accurate tumor region extraction (3,664 images) and multi-class prediction (6,774 images).
- Built an interactive Streamlit UI for segmentation, classification, and confidence-based prediction.

Breast Cancer Classification on MRI Images using XG-Vector
Tools: Python, Scikit-learn, XGBoost

- Developed a hybrid XGBoost + SVC model for 3-class MRI image classification.
- Improved accuracy through optimized feature extraction and ensemble learning techniques.
- Automated the full prediction pipeline using Python and Scikit-learn.

Real Estate Marketplace for Home & Land Sales and Rentals
Tools: HTML, CSS, JavaScript, Backend API, SQLite

- Built a web-based marketplace for listing, buying, selling, and renting properties.
- Implemented user authentication, image uploads, and advanced search with CRUD APIs.
- Designed a fully responsive UI with clean layouts and seamless backend integration.

Internship

Full Stack Development Intern — Macx Technologies, Cuddalore   June 2024
- Developed responsive web pages using HTML5, CSS, and JavaScript.
- Worked with MySQL for database design and backend integration.
- Collaborated using Git for version control and project management.

Certifications

- Python Programming – **Simplilearn**
- Introduction to Data Analytics – **Simplilearn**
- Power BI Data Modeling – **Simplilearn**
- Machine Learning Using Python – **Simplilearn**
- Excel – **Coursera**
- Introduction to SQL – **Simplilearn**