

KARTHICK RAJA

Data Analyst | Data Science

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PROFILE SUMMARY

Computer Science graduate specializing in Data Analytics and Data Science with hands-on experience in Python, SQL, Excel, and data visualization. Skilled in data cleaning, exploratory data analysis (EDA), and machine learning using Pandas, NumPy, and Scikit-learn. Developed data-driven projects including an AI-based bird species identifier and an Excel stock portfolio analysis dashboard. Passionate about transforming raw data into actionable insights to support data-driven decision-making and business intelligence.

TECHNICAL SKILLS

- **Programming Languages:**
Python, SQL, JavaScript (Basic)
- **Data Analysis & Visualization:**
Data Analysis, Data Cleaning, Exploratory Data Analysis (EDA), Data Visualization, Dashboard Development, Statistical Analysis
- **Libraries & Frameworks:**
Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn, Streamlit
- **Tools & Technologies:**
Excel, Git, GitHub, VS Code
- **Database:**
MySQL

CERTIFICATION

- Data Science & Machine Learning Certification – Besant Technologies
- Python Programming Certification – Besant Technologies

EDUCATION

B.E. – Computer Science and Engineering
Hindusthan Institute of Technology, Coimbatore
Graduated: April 2026 | CGPA: 6.8

EXTRA-CURRICULAR ACTIVITIES

- Participated in **L&T Techgium** innovation competition, presenting technical ideas and solutions.
- Participated in Inter-college competition for Code Debugging and Program Explanations

LANGUAGES

- English
- Tamil

PROFESSIONAL EXPERIENCE

Data Science Intern – Besant Technologies

- Performed **data cleaning and preprocessing** on structured datasets using **Python, Pandas, and NumPy**.
- Conducted **exploratory data analysis (EDA)** to identify patterns and trends in datasets.
- Built and evaluated **machine learning models** using **Scikit-learn** for classification and prediction tasks.
- Applied **feature engineering techniques** to improve model accuracy and performance.
- Created **data visualizations and reports** using **Matplotlib and Seaborn** to communicate insights.
- Queried and managed datasets using **SQL and MySQL**.
- Used Git and GitHub for version control, collaboration, and project management.

PROJECTS

Bird Species Identifier using AI

Technologies: Python, Scikit-learn, Streamlit, Librosa

- Developed a **machine learning model** to identify bird species from audio recordings.
- Extracted **MFCC audio features** for training the classification model.
- Developed an interactive Streamlit web application for real-time bird species prediction from audio recordings.
- Integrated the trained ML model with the web interface for accurate predictions.

Stock Portfolio Analysis Dashboard (Excel)

Technologies: Excel, Pivot Tables, Data Visualization

- Designed an Excel dashboard to analyze stock portfolio performance using pivot tables and charts.
- Used pivot tables, formulas, and charts to analyze investment data.
- Created visual reports to analyze portfolio growth and performance trends.