

# KARTHIKEYAN K

## Data Analyst / Data Scientist

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## PERSONAL PROFILE

Data professional with a background in Data Analytics and Data Science and a passion for leveraging data to drive actionable insights. Proven skills in Python, R, SQL, and data manipulation libraries. Experienced in data preparation, analysis, visualization, and model building. Knowledgeable in IoT applications. Seeking a challenging role as a Data Scientist/Data Analyst/Data Engineer to apply expertise in solving real-world problems.

## SKILLS

<b>LANGUAGES</b>	Python (Intermediate)   R (Fundamentals)   SQL (Fundamentals)
<b>LIBRARIES</b>	Python (Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Keras, NLTK) R (Dplyr, ggplot)
<b>Data Wrangling</b>	Data Preparation, Data Extraction, Data Cleaning, Exploratory Data Analysis(EDA), Data Visualization, Feature Engineering, Feature selection, Model Building, IoT
<b>Machine Learning</b>	Data Modeling, Clustering & Classification, Quantitative Analysis, Regression, Predictive Modeling, Model Validation, Model deployment, CNN & RNN, LSTM, BERT, Transformers.
<b>Tools</b>	Jupyter Notebook, Arduino IDE, R Studio, MS Excel, Tableau, VS code, Power BI
<b>Technologies</b>	Fundamental knowledge of PySpark, Hive, Pig

## EDUCATION

### BHARATHIAR UNIVERSITY – COIMBATORE, TAMILNADU

*Expected May 2024*

**Master Of Science in Data Analytics** Cumulative CGPA: 7.8/10

Relevant Coursework: Data Analysis, Machine Learning, SQL, Big Data, Statistics

### RAMAKRISHNA MISSION VIVEKANANDA COLLEGE – CHENNAI, TAMILNADU

*JUN 2021*

**Bachelor Of Science in Physics** Cumulative CGPA: 8.0/10

Relevant Coursework: Internet Of Things (IoT)

## PROJECTS

### HUMAN VS AI TEXT CLASSIFICATION USING BERT:

*Jan 2024*

➤ Employed the Keras NLP framework, specifically XLMBert, and fine-tuned the model using our classification dataset. Conducted preprocessing tasks such as stopword removal and word embeddings to determine if the provided text is generated by a human, achieving a testing accuracy of 99%.

### ENHANCING MRI IMAGES USING FAST SUPER RESOLUTION

*Dec 2023*

#### CONVOLUTIONAL NEURAL NETWORK (Academic)

➤ Utilized TensorFlow CNN Framework for enhancing the low resolution images to find out the minute details which are present in the medical MRI images with the help of FSRCNN Model.

➤ Implemented a Streamlit Environment for interactive model deployment, leading to 14% improvement in real-time predictions.

### SENTIMENT ANALYSIS ON AMAZON PRODUCT REVIEWS

*Dec 2022*

➤ Scraped Amazon reviews Data using python BeautifulSoup, Analyzed user sentiment towards products by utilizing the Pretrained ROBERTA model from Hugging Face, thereby reducing the manual training time of the model by 100%.

## OTHER ACTIVITIES

**Participations** : Co-Headed a team in the Smart India Hackathon 2023 (SIH1338), delivering a pioneering solution to a critical problem In Ministry of Mining Department identified by the Central Government of India; showcased exceptional problem-solving abilities.

**Seminars** : Delivered Hands on Seminar on basic data preprocessing for machine learning for Data Analytics Students from the Department of Computer Application in Bharathiar University, positively impacting 39 Students.

**Kaggle** : Actively contributing to Kaggle competitions, consistently engaging in data science challenges to stay abreast of industry trends and enhance problem-solving skills.

## COURSES AND CERTIFICATIONS

AWS Certified Cloud Practitioner CLF-C02, Udemy (*Ongoing*)  
Text Summarization Using Bert, Great Learning  
Fundamentals of Visualization With Tableau

Deep Learning Fundamentals, Eduonix  
Database Management System, NPTEL  
Data Analysis With Python, Cognitive Class