

# Karthick Thangadurai

## Data Scientist

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### PROFILE

Experienced Data Process Executive with 1.4+ years, skilled in data analysis, and dedicated to extracting valuable business insights. Transitioning with a solid foundation in **Data Science, Machine Learning, Natural Language Processing and Generative-AI** committed to ongoing learning and applying advanced data science techniques to drive business growth. Eager to contribute to data science team with innovative solutions

### SKILLS

Python | Data Visualization | Machine Learning | Deep Learning | Selenium | Tableau | SQL | MongoDB | LLM | Hugging Face | Google Analytics | AWS Cloud | NLP | BeautifulSoup

### PROJECTS

#### CarDekho Vehicle Recommendation System

Key Skills: Selenium, SQL, Recommendation Engine

- Built CarDekho Vehicle Price Recommendation System and used collaborative filtering technique
- Deployed to help the customer to get **recommendation based on the price, specifications and features** of cars
- Extracted real-time data for 10,000 cars** from CarDekho and engineered a data pipeline to transform unstructured information into a structured dataset. Subsequently, **derived 25 additional features** to enrich data for analysis.
- Developed a machine learning recommendation model that achieved a **precision@10 score of 0.75**, effectively suggesting **highly relevant items to 75% of users** within the top 10 recommendations and deployed in cloud

#### Smart House Price Prediction

Key Skills: Tableau, Streamlit, EDA

- Developed machine learning model to accurately predict house prices in smart housing market of the Bangalore
- Aimed to **provide precise pricing estimates and optimize user experience** for potential buyers and sellers
- Created interactive data visualization dashboard using statistical technique to analyze pricing trends of the houses
- Implemented machine learning algorithms and attained impressive **R-squared ( $R^2$ ) score of 0.85** with **different ensemble models**, model indicating strong correlation between predicted and actual house prices

#### Espn CricInfo Player Analysis

Key Skills: Python, API, Data Cleaning, Data Visualization, Statistics

- Performed in-depth analysis of cricket players' performance using ESPNCricInfo data to identify key statistics
- Collected and analyzed over 1500 international cricket players** statistics from ESPN CricInfo database
- Developed an interactive data visualization dashboard incorporating statistics to comprehensively analyze and compare performance trends of cricket players across multiple teams, providing actionable insights for strategic decision-making.
- Leveraged advanced statistical modeling to derive actionable insights into player performance, encompassing **batting avg, strike rate, bowling economy, wicket-taking ability, and fielding efficiency**, spanning a **last 15 year period**

### PROFESSIONAL EXPERIENCE

#### Data Process Executive

Jan 2022 – present | Chennai

XYZ Insurance Ltd

- Created and delivered impactful reports and visually compelling dashboards to effectively communicate complex data-driven insights to a diverse stakeholder audience of **over 200 employees**, driving data-informed decision-making
- Executed rigorous data cleansing and validation processes on a **massive dataset of over 25,000 claims**, ensuring data integrity and adherence to stringent quality standards while meeting critical transaction processing deadlines
- Exceedingly surpassed KPI including statistical, financial, and turnaround time metrics, resulting in a **remarkable 300% increase in project revenue**, lead **claim processing with 100% precision** as per client agreement

### EDUCATION

#### IIT-M Advanced Programming Professional & Master Data Science

Jan 2024 – Apr 2024 | Chennai

IIT-M GUVI

#### Bachelor of Commerce with Computer Applications

Jun 2020 – Apr 2023 | Chennai

IIT-M GUVI

### CERTIFICATES

- Generative AI Certification: Cognizant
- AWS Certified Machine Learning Engineer