

KARTHIK C

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SUMMARY

Aspiring Data Scientist with hands-on experience in Python, SQL, machine learning, and data visualization, with a strong inclination toward scalable modeling and real-world application. Skilled in building data pipelines, developing predictive and computer vision models, and crafting actionable insights through experimentation. Demonstrated ability to work with large datasets, optimize model performance, and deploy interactive dashboards.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, Java, C/C++.

Tools & Frameworks : Pandas, NumPy, PySpark, MySQL, MongoDB, Scikit-learn, TensorFlow, OpenCV.

Data Analysis & Visualization: Data Warehousing, Data Mining, ETL, Matplotlib, Seaborn, Streamlit, Power BI.

Soft Skills: Analytical Thinking, Problem-Solving, Collaboration and Communication.

EXPERIENCE

Data Visualization: Empowering Business with Effective Insights

Sept 2024 – Dec 2024

Tata Group

Virtual Internship

- Built interactive dashboards that supported executive decision-making using Power BI and Python.
- Analyzed multi-source datasets to deliver actionable insights and trend visualizations.

PROJECTS

University Transport Connect: Real-Time University Bus Tracking System

Jan 2025 – Apr 2025

Machine Learning & Web Systems

- Developed a predictive system using ML to estimate real-time bus arrival, enhancing user experience.
- Integrated machine learning algorithms for predictive bus arrival times to improve user experience.
- Implemented optimization techniques to enhance system stability under high traffic conditions.

Customer churn Prediction

Jun 2024 – Aug 2024

Machine learning & Data Analysis

- Built and evaluated classification models (Random Forest, XGBoost) to identify high-risk customers.
- Deployed interactive dashboards to visualize churn trends and drive business retention strategies.

Obstacle Detection for Autonomous Vehicles using YOLO

Jan 2024 – Apr 2024

Computer Vision & Deep Learning

- Built a real-time object detection system using YOLOv4 for autonomous vehicle.
- Demonstrated GPU-accelerated real-time detection performance using pre-trained YOLO models.

Health Insurance Cost Prediction

Sept 2023 – Dec 2023

Data Analytics & Machine Learning

- Created a web-based tool to predict health insurance costs using advanced regression techniques.
- Integrated advanced regression algorithms and data preprocessing techniques, improving prediction accuracy.

EDUCATION

Sathyabama Institute of Science and Technology

B.E. in Computer Science and Engineering with specialization in Data Science

Chennai, Tamilnadu

Aug 2021 – Apr 2025

Ebenezer Marcus Matriculation Higher Secondary School

Higher Secondary Certificate (MPCC)

Chennai, Tamilnadu

Jun 2020 – Apr 2021

CERTIFICATIONS

- Google Data Analytics — Coursera
- Google IT Automation with Python — Coursera
- Oracle Cloud Infrastructure 2023 Certified Foundations Associate — Oracle MyLearn
- Cloud 101 - Amazon Web Services — AWS Educate