Gokul M
B. Tech Artificial Intelligence and Data Science
KARPAGAM COLLEGE OF ENGINEERING
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Education

Examination	University	Institute	Year	CGPA (%)
Graduation	Anna University	Karpagam college of engineering	2026	7.32
HSC	State Board	S.B.K Hr.Sec School	2022	7.00
SSLC	State Board	S.B.K Hr.Sec School	2020	6.63

SKILLS SUMMARY

Languages: Python, Java, R Programming, HTML, CSS
Frameworks: Pandas, NumPy, Keras, Matplotlib, Scikit-learn
Databases : MySQL, Oracle
Machine Learning & NLP : AutoML, MLOps, Text Preprocessing, Scikit-learn, Pandas, NumPy
Deep Learning & Computer Vision : TensorFlow, Keras, Convolutional Neural Networks (CNN), Recurrent Neural Network (RNN), OpenCV
Platforms : Google Colab, GitHub, Tableau, PowerBI, Qlik Sense, Docker, Visual Studio Code, MongoDB
Soft Skills : Team Management , Communication, Leadership

KEY PROJECTS

Dimensionality Reduction and KMeans Clustering for Human Activity Recognition | Self Project [Jan '25]
- Preprocessed high-dimensional sensor data using scaling and encoding, and applied KMeans clustering with logistic regression for classification.
- Achieved 73.08% accuracy, with detailed metrics: Macro Average (Precision 0.76, Recall 0.73, F1-score 0.73) and Weighted Average (Precision 0.77, Recall 0.73, F1-score 0.73).
- Completed analysis in 0.084 seconds, demonstrating a scalable and efficient solution for real-world scenarios.

Optimized Vehicle Routing Using Genetic Algorithms | Self project [Jan '25]
- Tackled inefficiencies in logistics and transportation planning.
- Designed and developed a solution to optimize the Vehicle Routing Problem (VRP).
- Implemented a Genetic Algorithm-based approach to minimize delivery time and costs while considering constraints like vehicle capacity and delivery windows.
- Achieved a 25% reduction in routing costs and improved overall system efficiency, demonstrating the model's scalability for larger datasets.

MLOps For Predicting Job Placement | Self Project [Feb '24 – Mar '24]
- Developed an MLOps system to predict the Job Placement
- I spearheaded the MLOps implementation for predictive maintenance, leveraging VS Code for code development, google colab, Docker for containerization, and Streamlit.
- Enhanced data-driven decision-making capabilities and streamlined machine learning model deployment, resulting in improved operational efficiency and predictive accuracy
- Technological Stack: Machine Learning(ML), Streamlit

Vehicle Parking Management | Team Project [Feb '24 – May '24]
- Developed the "Vehicle Parking Management" project, utilizing CSS, HTML, and JavaScript for a responsive and interactive user interface.
- Implemented backend functionalities using PHP, ensuring efficient server-side processing and database management.
- Integrated Python scripts for advanced data processing and analysis, enhancing the overall functionality of the application.
- Technological Stack: HTML, CSS, SQL, PHP

FIFA Dashboards | Self Project [may '24]
- Crafted an interactive FIFA Football analytics dashboard using Tableau
- Empowering users to glean insightful data and make informed strategic

CERTIFICATIONS

- Completed Python Development Internship [Oct '23]
- NPTEL Course on Data Analytics With Python [Apr '24]
- Completed Data Visualization with PowerBI [Aug '24]
- Completed Java Business Application Training [Aug '24]
- Completed MongoDB, AI, and Vector Search [Sep '24]
- Completed Qlik Sense Business Analysts Qualification [Oct '24]

INTERNSHIP

TechnoHack | Intern [July '24 –Aug '24]
Java Developer
- Completed a one-month Java Development internship at TechnoHacks Solutions Pvt. Ltd., demonstrating hard work, consistency, and Java skills.

Octanet Service | Intern [Sep '23 – Oct '23]
Python Developer
- Proficient in Python programming and Object-Oriented Programming (OOP) principles.
- Developed and optimized an ATM system, improving transaction flow for better performance and user experience.