Kamaleshwaran BM
B.Tech Artificial Intelligence and Data Science
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Examination	University	Institute	Year	CGPA
BTech	Anna University	Karpagam College of Engineering	2027*	8.26
HSC	TN State Board	Nirmala Matha Convent Matric Hr.Sec School	2023	7.6
SSLC	TN State Board	Nirmala Matha Convent Matric Hr.Sec School	2021	-

SKILLS SUMMARY

Languages: Java, Python, SQL
Frameworks: Flask,TPOT, H2O.ai
Developer Tools: Git, GitHub, Jupyter Notebook, VS Code, Eclipse, Docker, Streamlit.
Soft Skills: Active Listening, Public Speaking, Written Communication, Adaptability, Emotional Intelligence

KEY PROJECTS

Real-Time Sign Language Recognition and Text Conversion System | Self Project *[Jan'25 – Feb'25]*

- Implement a real-time Sign Language to Text Conversion system using computer vision and deep learning techniques.
- Designed a customized fitness function to efficiently evaluate and optimize routing solutions.
- Used Matplotlib to visualize optimization outcomes and performance improvements.
- Achieved superior route optimization, significantly reducing computation time and enhancing efficiency.

Driver Drowsiness System | *Python, OpenCV, MediaPipe, TensorFlow/Keras* *[Jul'24 – Aug'24]*

- Developed a real-time driver drowsiness detection system using computer vision and deep learning.
- Implemented facial landmark detection to monitor eye closure, blink rate, and head position.
- Triggered alert mechanisms such as sound or visual warnings upon detecting signs of fatigue or microsleep.

Air quality prediction using MLOPS | *Python, ML, Docker, Flask* *[Mar'24 – Apr'24]*

- Designed and implemented an MLOps system for prediction AQI[Air Quality Index].
- Improved data-driven decision-making and optimized machine learning model deployment processes.
- Utilized Python, VS Code, Docker, and Flask for development, containerization, and visualization.

AutoML for loan prediction | *H2O.ai, Python, Google Colab* *[Feb'24 - Mar'24]*

- Compared H2O.ai, PyCaret, and AutoML frameworks for loan prediction.
- Evaluated model accuracy, AUC, precision-recall metrics, and runtime efficiency across tools.
- Used Docker for containerized deployment and Scikit-learn for preprocessing.

Ticket Reservation System | *Python, Google Colab* *[Feb'24 - Mar'24]*

- Built a ticket reservation system using DSA in Python.
- Added features like booking, cancellation, and seat tracking.
- Used Docker for containerized deployment and Scikit-learn for preprocessing.

CERTIFICATIONS

- NPTEL course on Python for Data Science(Elite) *[Oct'24]*
- QlikSense Business Analyst Certification *[Nov'24]*
- IBM course on Prompt Engineering *[Mar'25]*

SCHOLASTIC ACHIEVEMENTS

- Achieved Second Price in Application Development , KCE *[Feb'24]*

EXTRA-CURRICULAR ACTIVITIES

Technical	Presented a paper on Evaluating Groundwater Quality in Tirupur:Hydrochemical Facies -CIT	*[Feb'25]*