

Jithin P Subhash

Data Scientist

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SUMMARY

I am a motivated engineering student specializing in Artificial Intelligence and Machine Learning, seeking to leverage my theoretical knowledge and skills in a dynamic entrance-level position. With solid technical proficiency in programming languages like Python, SQL and tools such as Power BI, I am eager to contribute and innovate in this rapidly evolving field.

EDUCATION

B. Tech in Artificial Intelligence and Machine Learning

M S Ramaiah University of Applied Sciences, CGPA 7.86/10

Bangalore-560058

08/2020 - 07/2024

12th Grade

GHSS Boys Madayi

10th Grade

Puthiyangadi Jama-Ath HSS

SKILLS

EDA, Matplotlib, Microsoft Power BI, NumPy, OpenCV, Pandas, Python, Seaborn, SQL, Tableau, Artificial Intelligence, Machine learning

PROJECTS

Empirical Study on Lithium Battery Packs

06/2023 - 07/2024

An empirical study on heat generation patterns on lithium battery packs using intelligent algorithms.

- Conducted a dual-purpose study using regression to forecast cell temperatures and classification to detect potential overheating during charging/discharging.
- Collected detailed sensor data from 20 battery cells including voltage, current, time, ambient temperature, and thermal history.
- Used regression models (XGBoost, Random Forest) to accurately predict future temperatures, and binary classification models to label critical heat events (temp > 56°C).
- Enabled smart terminal switching and early risk alerts, improving heat distribution and battery longevity.
- Validated models using both regression and classification metrics to ensure robustness in high-performance environments.

AI Virtual Mouse

06/2022 - 11/2022

Development of a virtual mouse system for touch-free interaction.

- Developed a computer vision-based virtual mouse system that tracks hand movements and gestures using a webcam.
- Implemented real-time hand detection and gesture recognition using MediaPipe and OpenCV to control mouse cursor, perform clicks, and drag operations.
- Replaced physical mouse usage with intuitive finger gestures like index-finger movement for cursor control and thumb-index pinch for clicking.
- Enabled touchless human-computer interaction suitable for smart environments and accessibility solutions.
- Achieved smooth and accurate gesture detection with minimal latency, optimizing frame processing and gesture stability.

TRAINING / COURSES

Python

Data Quest

- Completed foundational training in Python covering variables, loops, functions, and file handling for real-world problem-solving.

Data Science in AI

Quest Innovative Solutions

- Developed practical skills in data preprocessing, exploratory data analysis, and model building using Python, pandas, NumPy, and scikit-learn.
- Gained hands-on experience in applying AI and Deep Learning concepts, including basic neural networks and model evaluation for real-world use case

Data Analytics and Visualization Job Simulation

Accenture

- Performed data cleaning, analysis, and visualization to uncover key business insights for a simulated client project.
- Developed skills in data-driven storytelling, stakeholder communication, and real-world decision-making.

LANGUAGES

English

Malayalam

Hindi