

Bhavana Lokesh

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OBJECTIVE: Seeking part-time student jobs/employment to support my studies financially. To learn new skills and enhance communication skills.

EDUCATION

Technische Universität Darmstadt, Germany Masters in Information and Communication Engineering (ICE) Data analysis, Machine learning, Data science, Network security, Network Communication	Oct 2024- Present
Jain University, Bengaluru, India Bachelors in Electronics and Communication Engineering (ECE) Python, C++, Java, DSA, DSP, Network Security & Protocols, Signals & Systems	Aug 2018- Aug 2022
Bharathi Composite PU College, India 2nd PU (Department of Pre-University Education, Government of Karnataka)	July 2016- May 2018
Sapthagiri English High School, India 10th Standard (Karnataka Secondary Education Examination Board),	Apr 2015- May 2016

PROFESSIONAL EXPERIENCE

Engineer – L&T Technology Services Ltd, Bengaluru, India <ul style="list-style-type: none">Marelli Telematics ProjectDeveloped core modules in the vehicle telematics system, including GPS tracking, remote diagnostics, infotainment features, and OTA (Over-The-Air) firmware update functionality.Improved vehicle-to-cloud data flow, enhancing connectivity reliability and telematics accuracy.Contributed to feature development supporting advancements in autonomous and connected vehicle technologies. <ul style="list-style-type: none">DATALOGIC OPOS ProjectEngineered software modules to enhance the performance and integration of Datalogic POS hardware. Implemented firmware/config updates through the Datalogic Remote Management Utility (DLRMU). Collaborated with cross-functional teams to integrate hardware seamlessly into enterprise-level POS systems.	Dec 2022- Sep 2024
Programmer Analyst - Cognizant Bengaluru, India <ul style="list-style-type: none">Developed and maintained scalable software applications using C# and .NET frameworks.Improved application performance through optimized backend logic and modular code structures.	Jan 2022 -Aug 2022
Intern - GMAT Verzeo, Bengaluru, India <ul style="list-style-type: none">Worked on ML models using Python, scikit-learn, and TensorFlow. Applied data preprocessing and version control with Git	Feb 2021– Mar 2021

TECHNICAL SKILLS

Programming: C++, Python, Java

Tools & Version Control: GitHub, VS, SQL, Kubernetes, Linux

AI / ML: Classification models, CV models (CLIP), CNNs, NLP, RAG, Vector Databases

ML Tools: NumPy, Matplotlib, Pandas

Networking: CAN protocol, MQTT, TCP/IP, Wireshark, Cisco Packet Tracer

Embedded/Automotive: Telematics systems, OTA updates, GPS integration, remote diagnostics

PROJECTS

CitySight App – Building Recognition & Tourism AI App	Oct 2025 – Present
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Developing an app where users upload a photo of any building; the system identifies it and provides **name, history, map location, nearby places, and transport suggestions**.

Uses **Computer Vision (CLIP)** to detect buildings, **LLM (RAG pipeline)** to generate historical narratives, and **geospatial algorithms** for recommendation.

Built using **FastAPI backend**, React Native frontend, vector search (FAISS), and open data sources (Wikidata, Wikipedia).

Incorporates **GPS-based filtering**, itinerary planning, and multimodal content (audio guide + maps).

European Crop Production Analysis	April 2025- Aug 2025
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Conducted a multi-country data analysis on European crop production trends over multiple years.

Examined factors including **rainfall, fertilizer usage, pesticide application**, and regional variations.

Applied statistical modeling, hypothesis testing, and predictive modeling to identify key drivers of yield changes.

Built visualizations and an interpretable model to study temporal agricultural patterns.

Smart Attendance System – Face Recognition	Jan 2022 – July 2022
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Built a real-time attendance system using **facial recognition and ML-based detection**, automating record generation.

Human Heart Disease Predictive Model	Jan 2021- march 2021
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Developed a machine learning classification model (under Verzeo) to predict heart disease likelihood. Implemented logistic regression, decision trees, and ensemble algorithms using Python's ML libraries.

CERTIFICATIONS

Artificial Intelligence (Verzeo), Python (LinkedIn), Java (Udemy), Wireless Networking Essential (LinkedIn)
