

# Bhavana Lokesh

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<http://www.linkedin.com/in/bhavana-lokesh>

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

## EDUCATION

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**Technische Universität Darmstadt, Germany** **Oct 2024- Present**

Masters in Information and Communication Engineering (ICE)

Data analysis, Machine learning, Data science, Network security, Network Communication

**Jain University, Bengaluru, India** **Aug 2018- Aug 2022**

Bachelors in Electronics and Communication Engineering (ECE)

Python, C++, Java, DSA, DSP, Network Security & Protocols, Signals & Systems

**Bharathi Composite PU College, India** **July 2016- May 2018**

2nd PU (Department of Pre-University Education, Government of Karnataka)

**Sapthagiri English High School, India** **Apr 2015- May 2016**

10th Standard (Karnataka Secondary Education Examination Board),

## PROFESSIONAL EXPERIENCE

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**Engineer – L&T Technology Services Ltd, Bengaluru, India** **Dec 2022- Sep 2024**

- Marelli Telematics Project

Developed 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.

- DATALOGIC OPOS Project

Engineered 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.

**Programmer Analyst - Cognizant Bengaluru, India** **Jan 2022 -Aug 2022**

- Developed and maintained scalable software applications using C# and .NET frameworks.
- Improved application performance through optimized backend logic and modular code structures.

**Intern - GMAT Verzeo, Bengaluru, India** **Feb 2021– Mar 2021**

- Worked on ML models using Python, scikit-learn, and TensorFlow. Applied data preprocessing and version control with Git

## TECHNICAL SKILLS

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**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

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### CitySight App – Building Recognition & Tourism AI App

Oct 2025 – Present

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

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

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

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

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