

BHOOMIKA SUBRAMANYA

Bengaluru,India | +91 8618211639 | bhoomikasubramanya3172004@gmail.com

OBJECTIVE

Passionate and self-driven software engineer enthusiast specializing in software development with strong programming skills in C++, Java, and Python. Experienced in OOP, software engineering, data visualization, and machine learning through academic and internships.

EDUCATION

Bachelor of Engineering, JSS Academy of Technical Education, Bengaluru Expected 2026

Relevant Coursework: Artificial Intelligence, Operating system, Analysis and design of algorithms, Machine learning, Database Management Systems, Software Engineering and Project Management, Computer Networks, Data structures and applications.

CGPA : 8.89

Senior Secondary (12th) , RNS Composite PU College, Bengaluru 2021 - 2022

Relevant Coursework: Physics, Chemistry, Mathematics, Computer science

Percentage : 96.83

Secondary School (10th) , The New Cambridge High School, Bengaluru 2019 - 2020

Percentage : 87.68

SKILLS

Technical Skills

C++, Java, Python, HTML

Soft Skills

Fast learner, Communication skills, Problem solving, Work ethic

Technologies/Framework

Git, Github, Power BI, Tableau, SQL(Basics)

EXPERIENCE

Intern

Feb 2025 - March 2025

BEL(Bharat Electronics Limited)

Bengaluru

- Developed machine learning models for live human detection using TensorFlow, enhancing real- time surveillance capabilities.
- Implemented text recognition systems using Tesseract OCR to extract and process textual data from images and video feeds.
- Explored and executed various TensorFlow programs on Google Colab, strengthening practical skills in neural networks and model deployment.

PROJECTS

House Price Prediction : The project focused on developing a predictive model to estimate house prices based on key features such as location, size, and amenities. Utilized machine learning algorithms like Linear Regression and Random Forest to analyze historical data and identify pricing trends. Implemented data preprocessing, feature engineering, and model evaluation to enhance prediction accuracy. The project provided insights into real estate market dynamics and demonstrated proficiency in data science and machine learning techniques.

Human Detection and Automated Pedestrian Counting : Developed a real-time pedestrian counting system with 95% detection accuracy using YOLOv8 and OpenCV. Achieved 90% frame processing efficiency for human detection and counting in live video streams. Enhanced object detection accuracy by 88% through image filtering and optimization techniques. Gained 95% understanding of AI applications in traffic monitoring, smart surveillance, and crowd analytics.

Automatic Signature Verification : Developed a machine learning-based system using image processing techniques to verify handwritten signatures and detect forgeries with high accuracy.

Movie Recommendation System : Project focused on developing a Human-Centered AI (HCAI) based movie recommendation system using machine learning and content filtering, focused on promoting SDG themes like education, diversity, mental health, and sustainability.

CERTIFICATIONS

- Introduction to UNIX - [Infosys Springboard](#)
- Computer Network and Internet Security - [Infosys Springboard](#)
- Building Serverless Apps with AI Services on AWS - [Linked In Learning](#)
- Agile Project Management - [coursera](#)
- Generative AI Landscape - [Infosys Springboard](#)
- Fundamentals of deep learning - [Nvidia](#)
- JSS4SoC Hackathon - [GeeksForGeeks](#)

EXTRA-CURRICULAR ACTIVITIES

- Walmart Global Tech Job Simulation -[Forage](#) April 2025
-Completed the Advanced Software Engineering Job Simulation where I solved difficult technical projects for a variety of teams at Walmart.
-Developed a novel version of a heap data structure in Java for Walmart's shipping department, showcasing strong problem-solving and algorithmic skills.
-Designed a UML class diagram for a data processor, considering different operating modes and database connections.
-Created an entity relationship diagram to design a new database accounting for all requirements provided by Walmart's pet department.
- Volunteer for the Social Service, Uttishtabharatha, Bengaluru 2022 - Present
Work: Government School Beautification Drive, Educated Childrens
- Hobbies/ Interest : Travel, Cooking, Pixel Art Drawing, Watching Films.