

# BHOOMIKA S M

Applied AI / Machine Learning Engineer (Fresher)

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<https://bunty11-703.github.io/portfolio/>

## PROFESSIONAL SUMMARY

Applied AI and Machine Learning Engineer (Fresher) with hands-on project experience building end-to-end ML-powered applications using **Python**, **scikit-learn**, and **Flask**. Strong focus on real-world problem solving, explainable AI, and deploying data-driven systems beyond model training. Experienced in working with structured **datasets**, **ML pipelines**, **APIs**, and front-end integration through applied projects. Passionate about responsible AI and analytics-driven decision systems.

## EDUCATION:

**KLE Society's Degree College**

Bangalore, India

Bachelor of Computer Application; Expected GPA:8 / 10

**Sep 2022 – Aug 2025**

**MES Mains**

Bangalore, India

Pre University – 64

**Sep 2020 – Apr 2022**

**Sri Ranga Vidyanikethan**

Bangalore, India

SSLC – 89.59%

**Jun 2019 – Apr 2020**

## SKILLS:

### Core Applied AI & ML

- Machine Learning (Supervised & Unsupervised Learning)
- Model Training, Evaluation & Feature Engineering
- Explainable AI & Bias Analysis
- Probability-based Predictions (not just classification)
- Model evaluation metrics, Feature engineering, REST API

### Technical Tools & Languages

- **Programming:** Python, SQL, Java (basics)
- **Data & ML Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, Flask

- **Tools:** VS Code, Render, Pycharm, Jupyter
- **Version Control:** Git, GitHub

### **Professional Skills**

- Problem-Solving & Analytical Thinking
- Quick Learning & Adaptability
- Team Collaboration & Communication
- Creative Thinking & Innovation

### **Data & Analytics**

- Exploratory Data Analysis (EDA)
- Data Cleaning & Preprocessing
- Tableau, Power BI, Excel

### **CERTIFICATIONS:**

- Python for Data Science –by Analogica
- Cyber Security – by ICT Academy integrated with Microsoft
- Computer Networking – by Learn On-Line
- Data Analytics (on-going) – by NoviTech Pvt Ltd

**LANGUAGES KNOWN:** Fluent in English, Kannada, Hindi and Marathi (native).

### **PROJECTS:**

#### **1. FairLens – Explainable Loan Approval System (Applied AI Project):**

- Built an explainable machine learning system to predict loan approval probability using financial applicant data.
- Intentionally excluded sensitive attributes (e.g., gender) from model prediction to demonstrate responsible AI practices.
- Performed fairness analysis across demographic groups to identify bias and outcome disparities.
- Implemented probability-based outputs instead of binary decisions to improve transparency.
- Developed a Flask back-end for model inference and analysis, ready for real-world deployment.

#### **2. AI-Based Resume Analyzer & Job Matcher:**

- Developed an NLP-powered system to analyze resumes and score them against job descriptions.

- Extracted skills, experience, and keywords to recommend suitable job roles.
- Focused on applied NLP use cases relevant to recruitment and HR tech.
- Visit project - <https://bunty11-703.github.io/ai-career-studio/>

### 3. HealthAI – Disease Prediction Platform:

- Built a symptoms-based disease prediction system using machine learning models.
- Implemented user login, prediction history, and interactive dashboards.
- Designed a clean HTML/CSS/JS front-end integrated with ML inference logic.
- Focused on real-user usability rather than model accuracy alone.
- Visit project - <https://health-ai-2-d516.onrender.com>

## WORK EXPERIENCE:

### Warranty Executive | Cauvery Motors (Unit of Ashok Leyland) *October 2025 – Present*

- Managed the full warranty process using **DBM (Dealer Business Management)** software, including creating job cards, raising Field Technical Reports (FTRs), and logging man-power utilization.
- Utilized **SAP Software** for relevant operational and administrative tasks
- Drafted and escalated formal correspondence (emails) to senior management regarding major technical or warranty-related issues.
- Supported the Accident Department, including maintaining comprehensive vehicle claim files and documentation.
- Prepared accurate financial documentation, including detailed estimations, invoices, and quotations for accident repair services.

## EXTRA-CURRICULAR ACTIVITY:

### 01. Tata Group Data Analytics Job Simulation on Forage - July 2025

- Completed a job simulation involving AI-powered Data Analytics and strategy development for the Financial Services team at Tata IQ.
- Conducted exploratory data analysis (EDA) using Gen-AI tools to assess data quality, identify risk indicators, and structure insights for predictive modeling.

### 02. Deloitte Australia Data Analytics Job Simulation on Forage - August 2025

- Completed a Deloitte job simulation involving data analysis and forensic technology
- Created a data dashboard using Tableau
- Used Excel to classify data and draw business conclusion.

### **03. AWS APAC Solutions Architecture virtual experience program on Forage - August 2025**

- Designed a simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.

### **04. JP-Morgan Chase & Co. Quantitative Research Virtual Experience Program on Forage - August 2025**

- Completed a simulation focused on quantitative research methods.
- Analyzed a book of loans to estimate a customer's probability of default.
- Used dynamic programming to convert FICO scores into categorical data to predict defaults.

### **05. Deloitte Australia Technology Job Simulation on Forage - September 2025**

- Completed a job simulation involving development and coding.
- Wrote a proposal for creating a dashboard.

### **06. Deloitte Australia Cyber Job Simulation on Forage - September 2025**

- Completed a job simulation involving reading web activity logs.
- Supported a client in a Cyber security breach.
- Answered questions to identify suspicious user activity.



