

## SUMMARY

As a Java Developer, specialized in AI\ML. Developed and deployed end-to-end solutions and worked on advanced AI use cases such as computer vision, NLP, recommendation engines, and real-time translation. I create production-level systems, deploying them from solutions within a team environment using the latest frameworks, and I am constantly learning and applying new skills and technology as this field evolves.

## EDUCATION

Amrita Vishwa Vidyapeetham

Bachelor of Engineering, Computer Science and Engineering

Bangalore, Karnataka

Nov 2021- July 2025

## TECHNICAL SKILLS

Programming Languages:	Java, Python, JavaScript, SQL
AI & Machine Learning:	Deep Learning, Machine Learning, Computer Vision, NLP, LLMs
Backend & API Development:	SpringBoot , FastAPI, REST APIs, MongoDB
Frontend Development:	React, Tailwind CSS
Cloud, DevOps & Services:	AWS S3, Docker, Git

## PROJECTS

AutoSight - Real-Time Indian Vehicle Classification and Detection

[github.com/Sravan94-git/Autosight](https://github.com/Sravan94-git/Autosight)

Nov2024 - Jul2025

- Developed a real-time vehicle detection and classification framework with a two-stage deep learning pipeline that resulted in an approximate 90% gain in efficiency compared to single-stage models.
- Designed the detection module as a lightweight **YOLOv8n** model, achieving 98.1% mAP@0.5 accuracy with only 3 million parameters, offering improved performance and efficiency.
- Created a fine-grained vehicle classifier with a **MobileViT** deep learning model, trained on 12 different vehicle classes, to achieve 100% more classification granularity than models that use broad categories.
- Deployed the system as a scalable **Flask web interface** that can provide real-time predictions of multiple vehicles in a single frame and can predict 10 or more vehicle classes at the same time.

FinanceShield – Loan Defaulter System

[github.com/Sravan94-git/FinanceShield](https://github.com/Sravan94-git/FinanceShield)

May 2024 – Oct 2024

- Architected a pipeline for credit risk analysis that analyzes a dataset of 1,000,000 individuals in order to predict defaults on loans and thereby minimize the institutional loss.
- Handled distributed data and preprocessing with **Hadoop**, trimming the full-size dataset of 50 features down to the 14 that were ultimately useful and reducing model-training time by an estimated 30%.
- Employed the **PySpark** framework to train a **Random Forest** model that produced the best accuracy at 79.87% comparing very favorably against multiple other models on the large dataset.
- Built an effective **Gradient Boosting** model using a **Scikit-learn** pipeline, which produced the highest Recall score of 97.25%, so that we would able to minimize borrowing risk to the company.

CineSense – Movie Recommendation System

[github.com/Sravan94-git/CineSense](https://github.com/Sravan94-git/CineSense)

Jan 2024 – Apr 2024

- Developed a full-fledged Movie Recommendation System that analyses user review sentiment into consideration to suggest movies more accurately and meaningfully.
- Designed a sentiment-classification model using **SVC** and **TfidfVectorizer** in scikit-learn that achieved an accuracy level of 85% on review data from IMDb.
- Created a Flask web app which used **BeautifulSoup** for web scrapping and also used **TMDB API** to enhance the user's experience with movie data and a customized sentiment-based rating.
- Engineered a weighted formula to come up with a final, solid movie rating based on aggregated sentiment categories.

## ACHIEVEMENTS

- Winners, BITS Pilani Inter-College Call of Duty Championship
- Solved 300+ DSA problems across multiple competitive coding platforms