

# Sowmya M

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## EDUCATION

### Lovely Professional University

Jalandhar, Punjab

B.Tech. in Computer Science and Engineering

Expected Graduation, April 2025

- **Concentrations:** Machine Learning and Data Science
- **CGPA:** 7.78/10.00, Dean's List
- **Related Coursework:** Data Structures & Algorithms, Design & Analysis of Algorithm, Database Management System, Computer Networks, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Discrete Mathematics, Probability and Statistics.

### Nachimuthu Polytechnic College

Pollachi, Tamil Nadu

Diploma in Electronics and Communication Engineering

July 2019 - April 2022

- **CGPA:** 9.468/10.00, Dean's List

## CERTIFICATIONS

### Complete Data Science and Machine Learning Program

GeeksforGeeks

July 2023 – Dec 2023

- Designing, developing, and implementing machine learning models and algorithms to solve real life problems.
- Collect, clean, and preprocess large datasets for model training.
- Evaluate and fine-tune models for optimal performance.
- Worked on end-to-end machine learning projects, from problem definition to deployment.

### Natural Language Processing Specialization by DeepLearning.AI

Coursera

Dec 2023 – Feb 2024

- Designing NLP applications that perform question-answering and sentiment analysis, create tools to translate languages and summarize text, and even build chatbots.
- Use dense and recurrent neural networks, LSTMs, GRUs, and Siamese networks in TensorFlow and Trax to perform advanced sentiment analysis, text generation, named entity recognition, and to identify duplicate questions.

## PROJECTS

### Object Classification Model for Waste Management

Team Member

Oct 2023 – Nov 2023

- Developed a Convolutional Neural Network (CNN) model for precise garbage/non-garbage classification.
- Extended the model to identify animals and detect flammable items in waste materials.
- Implemented the CNN model using TensorFlow and Keras with an accuracy of 82.4%, contributing to improved waste management and safety.

### PUBG Match Outcome Predictor

Team Lead

Jan 2024 – Feb 2024

- Trained machine learning models to predict the PUBG Match Outcome using GBR, LGBM, CatBoost, Random Forest algorithms.
- Analysed various player statistics and game characteristics to identify factors influencing match outcomes.
- Implemented techniques like feature engineering, model selection, hyperparameter tuning to build and optimized the prediction model to give an accuracy of 90.01%.

### AI – Powered Coding Assistant Project

Personal Project

Nov 2023 – Dec 2023

- Applied prompt engineering using Python and OpenAI API.
- Generated context aware debugging prompts, streamlining issue resolution and delivered personalized code refactoring suggestions based on best practices.
- Significantly improved the programming experience through innovative prompt strategies.

## SKILLS

**Programming:** Java, Python, Kotlin (Android), .NET, C, C++, Jetpack Compose, XML.

**Machine Learning:** Scikit-Learn, PyTorch, Tensor Flow, NLTK, Keras, Transformers, Pandas, NumPy, Matplotlib, Seaborn, Statistical Analysis.

**Tools:** AWS Sagemaker, Google Collab, Jupyter Notebooks, Git, Android Studio, IntelliJ, SQL Server, Visual Studio, Visual Studio Code.