

# SUNDARI AVANTHIKAA SRINIVASAN

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## EDUCATION

### SRM Institute of Science and Technology | Sep 2021 - Present

*Bachelor of Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning*

- Currently in final semester with 9.2/10 CGPA

**Coursework:** Artificial Intelligence, Data Structures and Algorithms, Data Analysis and Algorithms, Statistical Machine Learning, Design and Analysis of Algorithms, Genetic Algorithms, Artificial Neural Networks, Intelligent Machining

## EXPERIENCE

### EY Summer Intern | Jan 2025 - Apr 2025

- Designed a comprehensive capacity planning solution to streamline resource allocation and project management
- Developed a Spring Boot backend, React frontend, and MySQL database; integrated role-based access control and reporting features
- Enabled efficient tracking of ongoing projects and new demands, improving decision-making and resource utilization

### TVS Motor Company Digital & Artificial Intelligence Intern | Sep 2024 - Nov 2024

- Developed an AI-powered part-counting system for Plant 2 Vehicle Store
- Used YOLO CNN for real-time detection, collected and annotated 1,000+ images, and built a Tkinter-based GUI for invoice verification
- Achieved 83% model accuracy, automated parts verification, and improved inventory management efficiency by reducing human error

### GreenPepper AI GenAI Intern | Jan 2024 - Apr 2024

- Built "Research PAA," an AI-powered research assistant for research paper drafting
- Leveraged Llama 2 API for text generation, developed a Streamlit-based UI, and integrated customization options for formatting, citations, and templates
- Automated initial research paper drafting, improved user efficiency, and provided structured content generation for student researchers and scholars

### Pixel and Mortar AI Research & ML Intern | Jun 2023 - Jul 2023

- Automated client requirement processing
- Used Python (Pandas, Openpyxl) to streamline Excel template creation
- Improved efficiency for fulfillment teams

## PROJECTS

### Movie Success Prediction

- Developed a machine learning-based model to predict movie success based on budget, cast, director, and reviews.
- Engineered features from IMDb and TMDb datasets and implemented regression models for box office revenue estimation.
- Built a hybrid recommendation system using collaborative and content-based filtering techniques.
- Improved recommendation accuracy, enhancing personalized user experience and decision-making for stakeholders.

### F1 Race Prediction Model

- Designed an ML model to predict F1 race outcomes using historical data, track conditions, and driver performance.
- Processed and analyzed race data, including lap times, weather, and tire strategies, for feature engineering.
- Implemented ensemble models like Random Forest and XGBoost to enhance predictive accuracy.
- Achieved significant improvement in race outcome predictions, providing valuable insights for analysts.

### Deep Learning-Based Music Genre Classification

- Built a deep learning model using CNN and LSTM to classify music genres based on extracted audio features.
- Processed audio datasets, extracting MFCCs, chroma, and spectral contrast for feature representation.
- Optimized model performance using dropout, batch normalization, and hyperparameter tuning.
- Achieved high classification accuracy, demonstrating the effectiveness of deep learning in music analysis.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, C++, SQL (MySQL, Postgres), R, PySpark

**Technologies:** PowerBI, Tableau, Excel, AWS, MongoDB, ReactJs, SpringBoot, Flask, Computer Vision

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Keras, Streamlit, Langchain

**DevOps & Tools:** Jupyter Notebook, Visual Studio, Git, Docker, Kubernetes, Jira, Trello, PowerPoint, Word

**Data Concepts:** Natural Language Processing, Exploratory Data Analysis, Statistical Methods, Time Series Analysis