

SUNDARA THAMIZHAN S

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PROFESSIONAL SUMMARY

Entry-level Data Science student with hands-on experience in Machine Learning, Deep Learning, and Data Analysis. Skilled in Python-based model development, data preprocessing, and deploying ML models using Streamlit. Seeking a Software/Data Science Internship to apply analytical and programming skills in real-world projects.

TECHNICAL SKILLS

Programming: Python, C, C++, Java, MySQL

Machine Learning & AI: Scikit-learn, TensorFlow, Keras, CNN, Reinforcement Learning

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Statistics

Tools & Frameworks: Streamlit, OpenCV

PROJECT EXPERIENCE

Crop Yield Prediction System | Machine Learning

- Built regression models using KNN and Random Forest to predict crop yield based on soil and weather data.
- Performed feature selection, missing value handling, and data scaling to improve accuracy.
- Designed deployment-ready architecture for future Streamlit integration.

Image-Based Crop Disease Classification | Deep Learning

- Developed and fine-tuned CNN models to classify crop diseases from leaf images.
- Applied data augmentation techniques to enhance generalization and accuracy.
- Deployed the trained model using Streamlit for real-time disease prediction and treatment guidance.

Reinforcement Learning Based Medical Appointment Scheduling

- Designed an RL-based hospital scheduling system to optimize doctor appointment allocation.
- Implemented multi-agent RL to handle multiple doctors and emergency interruptions.

Sales Prediction System | Machine Learning

- Developed ML models to forecast sales revenue for a 3-month horizon.
- Improved inventory planning and profitability through accurate predictions.

ACHIEVEMENTS & ACTIVITIES

- Secured 2nd Place in Math Pirates event at Login 2024, PSG College of Technology.
- Volunteer, Mathematics Team – Anokha 2024, Amrita Vishwa Vidyapeetham.

CERTIFICATIONS

- Data Analysis with Python – IBM Cognitive Class (2024)
- Python and Machine Learning Bootcamp – GDSC & AWS Community Builder (2024)
- Programming Certification (C, C++, Python, Java) – Cogtis Technologies (2023)
- Email Writing Skills – Infosys Springboard (2024)

EDUCATION

Integrated M.Sc. Data Science (2022 – 2027)

Amrita Vishwa Vidyapeetham, Coimbatore | CGPA: 6.84