Harshini V

Student

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PROFESSIONAL OBJECTIVE

Aspiring MSc Integrated Data Science student seeking a challenging position in Data Science to apply my skills in data analysis, statistical modeling, machine learning, and data visualization to solve real-world business problems.

SKILLS

Technical Skills: C, C++, Python, Java, HTML, CSS, JavaScript, Flask, Power BI, Tableau, Excel, MySQL, MongoDB

Personal Skills: Readiness to learn, Adaptability to an environment, Leadership and Communication skills

Area of Interest: Machine Learning, Predictive Analytics, Database Management System

PROFESSIONAL EXPERIENCE

Data Science Intern – *Madura Coats Pvt Ltd (Jun 2024 – Dec 2024)*

- *AI-Driven Sales Forecasting:* Created a time series model using Prophet, ARIMA, and SARIMA on Azure Databricks to predict monthly sales with over 90% accuracy, aiding strategic inventory decisions and improved planning efficiency across 12 regional business units.
- *RhenoMapping – Automated DXF and PO Mapping:* Developed a Python pipeline using ezdxf and Google Document AI for extracting metadata from DXF files and converting PO PDFs to Excel, achieving 95% accuracy in mapping and a 70% reduction in manual effort.
- *Shoe Engineering Automation:* Streamlined product configuration by extracting SQL data, applying business rules, and generating CMS-ready Excel sheets, reducing engineering update time by 60% and enabling real-time CMS synchronization.

Power BI Internship – *Cogtis Technologies Pvt Ltd (Jan 2024)*

- Gained expertise in data visualization, dashboard creation, and providing actionable business insights to stakeholders.

Machine Learning & Applications – *NSIC-TSC Hyderabad (Jan 2023 – Feb 2023)*

- Completed hands-on training in supervised and unsupervised learning, applying ML algorithms to real-world datasets achieving 75%+ model accuracy.

PROJECTS

Credit Card Offer Acceptance Prediction (Apr 2025)

- An ethically-aware deep learning project to predict credit card offer acceptance while mitigating income-based bias using SHAP, Fairlearn, and AIF360 achieving 93% accuracy.

Productivity Predictor for Garment Manufacturing (Jun 2024)

- Built a Flask application to predict employee productivity in the garment industry utilizing Random Forest Regressor & XGBoost classification model which optimized planning efficiency by 20%.

CluckCare - Chicken Disease Prediction (Mar 2024)

- A website harnessing the power of deep learning with convolutional neural networks (CNNs) to predict chicken diseases from uploaded images of their excretions, with over 96% accuracy.

Movie and Book Recommendation System (Oct 2023)

- Built a hybrid recommendation system using BERT Model, genre mapping & twitter sentiment analysis to enhance user experience.

Student Achievement Management System (Sep 2023)

- Designed a comprehensive full-stack web application to track student performance using HTML, CSS, JS and back-end with MySQL & PHP.

ACHIEVEMENTS

- Awarded Second Place in Idea Harvest '24 competition on Mar 12, 2024.
- Secured Second Place in Madurai Hackathon '23 during Aug 11-12, 2023.
- Secured Third Place in Madurai Hackathon '22 during Aug 12-14, 2022.
- Received Academic Topper Award for 3 consecutive years 2022–2025.
- Won prizes in ML, Paper and Poster Presentation in TECHUTSAV '23.
- Awarded as Best Outgoing Student of the batch 2020-2021 in school.
- Been the Education Minister in the School Cabinet in 2019-2020.

PUBLICATIONS

Strategies to Enhance Web-Based Learning (Dec 2022- Jan 2023)

Research and Reflections on Education (UGC Care Approved)

Published paper for an International Conference on "Emerging Trends in Online Teaching Assessment and Learning" (eTOTAL) which explored pedagogical strategies and technology integrations to improve student engagement and outcomes in digital learning.

Alzheimer's Diagnosis (Jan 2024- Mar 2024)

IGI Global

Authored a book chapter on Harnessing Machine Learning and Deep Learning for early Alzheimer's detection, contributing to timely medical interventions and better patient outcomes.

Transforming Rice Agriculture (Feb 2024- May 2024) (Under Review)

CRC Press, Taylor & Francis Group, USA

Co-authored a chapter on an integrated mobile application for Automated Classification, Disease Prediction, and Crop Health Assessment.

EDUCATION

Thiagarajar College of Engineering, Madurai-15

MSc 5 year Integrated Data Science (2021 - 2026) (Pursuing)

CGPA: 9.80 (up to 7th semester)

Keswick Public School, Madurai

12th ISC (2021): **91.2%**

10th ICSE (2019): **94.8%**