HARSHAVARDHAN S

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SELF-PRESENTATION

Recent Computer Science Engineering graduate from VIT with a strong foundation in programming and machine learning. Interned at Pfizer's Statistical Data Sciences team, gaining hands-on experience in SAS, R and Python for data analysis. Contributed to NLP projects in clinical research with the Innovation Team. Known for analytical thinking, problem-solving and a passion for continuous learning.

EXPERIENCE

Pfizer

Statistical Data Sciences and Analysis Intern — *Chennai, India*

- Hands-on experience with SAS, R and Python for data manipulation and analysis.
- Underwent domain-specific knowledge transfer sessions focused on SDTM and ADaM standards.
- Shadowed the Innovation Team on NLP projects and developed a tool to automate the STDM team's workflow.

Kinaxis

Intern — *Chennai, India*

- Received comprehensive training in JavaScript, enhancing proficiency in coding.
- Analyzed supply chain fundamentals and understood the impact of RapidResponse, Kinaxis' SCM software.
- Explored concepts of Machine Learning forecasting in the context of supply chain optimization.

RESEARCH PROJECTS

Research Paper - Encrypted Prediction (Published at *IEEE Xplore*) | *Homomorphic Encryption and Deep Learning*

- Implemented homomorphic encryption using ConcreteML to secure sensitive employee data during attrition predictions.
- Leveraged Docker to access ConcreteML and perform encryption-based computations efficiently.
- Designed an architecture in PyTorch capable of handling encrypted inputs, achieving a 94% prediction accuracy.

Research Paper - SmokerBeacon (Published at *IEEE Xplore*) | *Object Detection - Enabled IoT*

- Developed a real-time cigarette smoking detection system using YOLOv9 and an IoT-enabled MQ135 gas sensor.
- The system used HTTP network protocols, enabling remote monitoring with alerts via LEDs and buzzers.

Research Paper - Detecting ASD (Published at *Procedia Computer Science*) | *Deep Learning - Using MRI*

- Explored distinct neural patterns associated with Autism Spectrum Disorder using MRI scans.
- Applied advanced deep learning techniques for feature extraction.
- Achieved 98% detection accuracy by leveraging machine learning classifiers on extracted features.

Research Paper - Multi-Label News Categorization (Presented at ICCCNT 2025) | *Explainable AI with DistilBERT*

- Developed a DistilBERT model for multi-label news classification using 10-category Inshorts dataset.
- Integrated LIME for explainable predictions, enhancing model transparency.
- Achieved 97.37% macro F1-score and 94.20% subset accuracy, outperforming prior approaches.

EDUCATION

Vellore Institute of Technology — **2021 – 2025**

Bachelor of Technology in Computer Science — *Chennai, Tamil Nadu, India*

Velammal Vidyalaya — **2019 – 2021**

All India Senior School Certificate Examination (AISSCE) — *Chennai, Tamil Nadu, India*

CERTIFICATIONS

- **Python: Basic** - HackerRank
- **SQL: Intermediate** - HackerRank
- **Solutions Architect – Associate** - AWS
- **Machine Learning using Autonomous Database** - Oracle
- **Python for Data Science** - NPTEL

SKILLS

- **PROGRAMMING:** Python, Java, SAS
- **WEB DEVELOPMENT:** HTML, CSS, JavaScript
- **PYTHON FRAMEWORKS:** Flask, TensorFlow, PyTorch
- **CONCEPTUAL KNOWLEDGE:** DSA, OOPS, Docker