Srivaishnavi Yaddanapudi

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Education

Manipal University, Jaipur, B.Tech in Computer Science and Engineering — Oct 2021 – Present
- **GPA:** 8.95/10
- **Coursework:** Data Structures & Algorithms, Data Science & Machine Learning, Minor in Data Analytics.
- **Certifications**: Machine Learning Specialization, Neural Networks and Deep Learning – by Andrew Ng.

Experience

Summer Intern, Defence Research and Development Organization (DRDO) – Hyderabad, India (Confidential) — May 2024 – Oct 2024
- **Skills**: Python, Object Detection, Applied Machine Learning, Image Processing

Research and Development Intern, Hexanika – New York, NY (Part-time) — Jan 2024 – May 2024
- Identified use-cases of ML into a patented authentication system, for user data acquisition and process automation.
- Published a whitepaper on the integrability of GPT into finance ecosystems from a business perspective.

Machine Learning Intern, iNeuron.ai – Remote (Project-based) — Mar 2023 – June 2023
- Developed a Phishing Website Detector web application, with 97.92% accuracy.
- **Skills**: Python, Data Analysis & Processing (Pandas), Streamlit, Web Scraping, and Code Documentation.

Research Projects

Regression using Stacking Ensemble and Clustering (Publishing underway) — Feb 2024 – June 2024
- Reduced the impact of uncertain data partitioning in small datasets on model training.
- Achieved best and average testing scores $R2$ of 0.9855 and 0.9774, and MSE of 1.0450 and 1.5198 respectively.
- Tested applicability of the scheme in compressive strength prediction, outperforming all recent works.
- **Skills**: Machine Learning with Python (scikit-learn), Pandas, NumPy, and Data Analysis & Visualization (Matplotlib)

Image Encryption using a Hybrid Cryptosystem (Publishing underway) — Nov 2023 – Feb 2024
- Developed an NIST-compliant symmetric cryptosystem using cellular automata and chaotic maps for image encryption, under the guidance of senior faculty Dr Satyabrata Roy.
- Secured the first runner-up for Best Minor Project under Research Category out of 500+ students.
- **Skills**: Image processing libraries (OpenCV) with Python, NumPy, and Data Visualization (Matplotlib)

Academic Projects

Neural Architecture Search – Project Repo — Sept 2023 - Mar 2024
- Tested the applicability of conventional hyper-parameter tuning techniques, such as random search and bayesian optimization, in neural architecture search automation.
- **SKills**: Python, TensorFlow

Accomplishments

- Three-time recipient of the Dean's Award of Academic Excellence.
- Recipient of the Student Excellence Award for early industry experience (Summer 2024).

Extracurriculars

- **Community**: Contributed as an editor, marketing strategist, and PR at IEEE Student Branch, Manipal University Jaipur, research and technology community of 700+ students, over the span of two years.
- **Leadership**: Led a team of 10 as the Joint Head of Editorial of IEEE SB MUJ, for the tenure 2022-23.