

ASHTAMI R S

Chennai, Tamil Nadu

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Education

Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College

Sep 2023 – May 2027

Bachelor of Technology in Artificial Intelligence and Data Science

Chennai, Tamil Nadu

Achievements

Hackerrank: Secured 5 stars in Java, C++, and Python for solving 70+ problems.

Idea Presentation: Secured second prize in an inter-college competition at Amrita College of Engineering and Technology.

Academic Excellence Award: Recognized as branch topper in AI & Data Science, II semester.

Aptimind Aptitude Contest: Secured second prize, showcasing strong analytical, logical reasoning, and problem-solving skills.

Experience

NSIC - Technical Services Centre

December 2024

Machine Learning Intern

Chennai, Tamil Nadu

- Trained in practical applications of machine learning algorithms using Python.
- Implemented ML models using scikit-learn and pandas for real-world databases.
- Performed data preprocessing, feature engineering, and model evaluation to improve accuracy.
- Worked under guidance from a Government of India enterprise, enhancing practical understanding of industrial ML applications.

Projects

VisualGuard | *Python, TensorFlow, Streamlit*

July 2025

- Built a hybrid CNN + Transformer model for detecting manipulated media.
- Integrated Grad-CAM explainability and Streamlit UI for real-time predictions.
- Achieved high accuracy in distinguishing real vs fake videos/images.

AI-based Weather Forecasting System | *Python, LSTM, Transformer*

December 2024

- Developed a hybrid ML model for short-term (LSTM) and long-term (Transformer) weather prediction.
- Processed real-time meteorological data for hyper-local forecasting.
- Improved forecasting accuracy compared to ARIMA and CNN.

Multi-Modal AI for Cancer Diagnosis | *Python, CNN, BERT, XGBoost*

June 2024

- Designed an ensemble model combining medical images, clinical records, and genomic data.
- Applied CNNs for imaging, Transformers for text, and XGBoost for genomic data.
- Provided cancer type and stage prediction with explainability using Grad-CAM and SHAP.

Relevant Coursework

- Data Structures
- Database Management
- Artificial Intelligence
- Operating Systems

Technical Skills

Languages: Python, Java, C++, HTML/CSS

Developer Tools: VS Code, Eclipse, GitHub

Technologies/Frameworks: TensorFlow, Scikit-learn, Streamlit

Soft Skills: Communication, Problem Solving, Leadership, Collaboration

Certifications

Diploma in Python Programming – Acharya Institute

NPTEL – The Joy of Computing using Python (IIT Madras)

NPTEL – Software Testing (IIT Kharagpur)

Hackerrank Certification: Python (Basic)

TechTrio Training: C++, Java, Python – Cybernaut

MS Office Certification: Word, Excel, PowerPoint