

Yashwanth Karuparthi

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Valid driving licence: Yes

Collaborative and detail-oriented developer with a passion for optimizing workflows and contributing to innovative software development projects. Strong foundation in software development and data science, with proficiency in Pandas and NumPy for data manipulation. Skilled in code refactoring and optimization, eager to contribute to challenging and impactful projects in the tech industry.

EXPERIENCE

- Missan IT Solutions** Sharjah, UAE
IT Support Intern *Jun. 2023 - Aug. 2023*
Developed an automated audit reporting system for on-site audits using Microsoft Power Automate, improving efficiency and accuracy by reducing the risk of human error.

RELEVANT PROJECTS

- Intern-buddy: AI-driven proximal internship recommender with chatbot interview prep** Dec. 2024
Python, Llama-3.1-sonar, Google Maps API, SQLite, Streamlit
Developed a Streamlit application to recommend internships based on proximity to the user's location, utilizing the Google Maps API for fetching internship coordinates. Implemented an AI-driven chatbot using Llama-3.1-sonar to simulate behavioral interviews, storing responses in an SQLite database for interview performance analysis.
- Solar Irradiance Forecasting using Hybrid Deep Learning Models** Nov. 2024
Python, Numpy, Pandas, Matplotlib, Seaborn, Keras, sklearn
Developed hybrid deep learning models combining BiLSTM and GBDT for accurate solar irradiance forecasting using multi-variate time-series data. Performed feature engineering on environmental variables and historical data, and implemented dropout regularization to improve model generalization.
- Predicting Energy Demand with Interpretable Machine Learning Models** Oct. 2024
Python, Numpy, Pandas, Matplotlib, Sklearn, Explainable AI
Proposed and implemented explainable AI model for energy demand forecasting using meteorological data. Conducted EDA and focused on feature engineering to enhance model performance. Accepted for publication in the Proceedings of IEEE, Oct. 2024.

TECHNICAL SKILLS

Languages	Python, Java, C, JavaScript
Web Technologies	HTML, CSS, React, Next, Vue
Databases	MySQL, MongoDB, SQLite
ML/AI	Scikit-learn, Keras, Pytorch
Data Visualization/Analytics	PowerBi, Pandas, Numpy, Matplotlib, Plotly, Seaborn
Version Control and OS	Git, GitHub, Linux

RELEVANT COURSEWORK

- Software Engineering • Artificial Intelligence • Data Mining • Data Structures • Design & Analysis of Algorithms
- Operating Systems • Compiler Construction • Database Systems • Theory of Computation • Computer Networks
- Object Oriented Programming • Discrete Structures • Logic in Computer Science • Computer Architecture
- Principles of Programming Languages

CERTIFICATIONS & EXTRACURRICULARS

- Neural Networks and Deep Learning (DeepLearning.AI) • Supervised Machine Learning: Regression and Classification (Stanford University) • Advanced Learning Algorithms (Stanford University) • Accenture North America Data Analytics and Visualization Job Simulation (Forage)

EDUCATION

- Birla Institute of Technology and Science** Dubai, UAE
Bachelor's of Engineering in Computer Science; CGPA: 7.96 *Sep. 2021 - Aug. 2025*
- Narayana Junior College** Hyderabad, India
Higher Secondary Education; Grade: 85% *May. 2019 - Mar. 2021*