

Periketi Charan

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Career Objective

Passionate undergraduate Computer Science student with strong proficiency in Python and Java, along with practical experience in machine learning and software development. Skilled in developing efficient, scalable solutions using modern technologies and clean coding practices. Committed to continuous learning and contributing effectively to innovative projects in collaborative and fast-paced environments.

Education

Malla Reddy Engineering College , B.Tech in CSE (AIML), CGPA: 8.69	2022 – 2026
TSMS Jr. College , Intermediate (MPC), 84.9%	2020 – 2022
TMM Z.P.H.S , SSC, 9.5 GPA	2019 – 2020

Professional Experience

Advanced AI & Deep Learning Intern , Skilltimate Technologies, Hyderabad	May 2024
<ul style="list-style-type: none">Developed AI models to improve accuracy and applied ML techniques for better decision-making.Integrated models into production with senior engineers, ensuring scalability and efficiency.	
Junior Developer , R ² Educational Services, Hyderabad	May 2023
<ul style="list-style-type: none">Built a web application to improve user experience and optimized backend code for better performance.Enhanced backend functionality and integrated data workflows, ensuring smooth and reliable system operations.	

Projects

Stock Market Prediction via Multi-Source Multiple Instance Learning 🔄	Jul 2025 – Present
Built a Django-based system to predict stock market rise or decline by integrating news, social media, and quantitative market data with event extraction, sentiment analysis, and vectorization, achieving 94% accuracy using XGBoost.	
<ul style="list-style-type: none">Implemented event extraction (HanLP), sentiment analysis (LDA), and vectorization (RBM & sentence2vec).Trained models using Multi-Instance SVM and XGBoost for improved accuracy.	
Tools: Python, Django, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, XGBoost	
Predicting Air Quality Index using Machine Learning & Data Analytics 🔄	Jun 2025
Developed a Random Forest regression model to predict AQI from pollutant and geographic data, performing exploratory data analysis to visualize trends, categorize air quality, and generate country-specific reports, achieving an R² score of 0.94 .	
<ul style="list-style-type: none">Performed EDA to visualize AQI trends, identify polluted regions, and categorize air quality.Generated detailed country-wise AQI reports with pollutant breakdowns.	
Tools: Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn	

Technical Skills

Languages: Java, Python, C, C++
Web Development: HTML, CSS, JavaScript, Django, Node.js
Databases: MySQL, MongoDB, PostgreSQL
Core Concepts: Data Structures and Algorithms, Data Analytics, OOP, CN, DBMS, OS, Computer Vision
Libraries: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow (basics), Transformers (beginner)
Technologies: Machine Learning, Deep Learning (CNN), NLP (LLMs), OpenCV
Cloud Platforms: AWS, Microsoft Azure, Google Cloud Platform
Tools: Git, GitHub, Linux, Tableau, Power BI

Certifications

C & Python Programming Workshop – Skilltimate
Introduction to Cybersecurity – Cisco Networking Academy (Jun 2023)
Data Analytics Job Simulation – Deloitte Australia (Mar 2025)
Azure AI Fundamentals – Microsoft (May 2025)
Career Essentials in Generative AI – Microsoft & LinkedIn (Mar 2025)