Hemanth Vedantam

AI & ML Engineer

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🪪 PROFILE

AI & ML Engineer with hands-on experience in building and deploying predictive models using Python, Scikit-learn, TensorFlow, and PyTorch. Proven ability to design scalable data pipelines and NLP-based solutions. Strong problem-solving skills, with achievements in competitive programming and AI research. Passionate about transforming business problems into AI-driven solutions.

🎓 EDUCATION

B.Tech- CSE, *KL University*   2022 – 2026
  CGP: 9.55   Guntur, India

MPC, *Narayana College*   2022
  Percentage: 90%   Vijayawada, India

💼 PROFESSIONAL EXPERIENCE

Software Development Intern, *FedEx*   06/2025 – Present
  • Conducting qualitative analysis on system performance and user behavior to drive product insights.   Hyderabad, India
  • Managing and querying large-scale databases (Oracle DB) to support backend services and operational reporting.

Data Science Intern, *Innomatics Research Labs*   01/2025 – 03/2025
  • Developed and deployed predictive ML models using Scikit-learn, improving forecast accuracy by 20%.   Bangalore, India
  • Automated preprocessing workflows, reducing manual effort by 40%.

🧠 SKILLS

Programming
Python, SQL, Java

ML & DL
TensorFlow, Scikit-learn, PyTorch, NLP

Big Data & Cloud
AWS (EC2, S3, Lambda), Google Cloud, Hadoop, Spark

Tools and Technologies
Git, CI/CD, Docker, Kubernetes

Data Science & Analytics
Predictive Modeling, Statistical Analysis, Data Wrangling, Feature Engineering

Problem Solving and Critical Thinking
  Ability to analyze complex data challenges and design AI-driven solutions.

🗂 CERTIFICATES

  • Oracle AI Foundation Association
  • AWS Cloud Practitioner CLF-C02
  • Advanced Data Analytics Specialization by Google
  • Oracle Gen AI
  • Red Hat Enterprise Programming
  • Data Science by Python Certification by Udemy

📁 PROJECTS

Advanced EDA Dashboard
  • Built a Flask-based web tool that accepts CSV uploads and generates automated **EDA reports**, including statistical summaries, null value analysis, outlier detection, and visualization dashboards.
  • Integrated outlier handling **(IQR, Z-score),** missing value treatment **(mean/median/imputation),** and downloadable cleaned datasets, enabling end-to-end data preprocessing for **ML pipelines.**

AI Career Path Recommendation System
  Built an AI-powered career path advisor using Flask and LLMs to analyze user skills, recommend roles, and visualize trending technologies via NLP and prompt engineering.

Credit Card Fraud Detection,
  • Built a fraud detection system using **Supervised Learning (Random Forest, XGBoost, Logistic Regression)**.
  • Achieved **92% accuracy** with **2% false positives**, optimizing fraud detection for banking transactions.

Movie Recommendation System,
  Built movie recommendation system using collaborative/content-based filtering (Scikit-learn, Pandas), Achieved **85% precision** and enhancing user Personalization.

🏅 AWARDS

Elite Competitive Programmer – HackerRank & CodeChef (Gold Badge Holder, 2024)
  • Demonstrated advanced algorithmic proficiency and problem-solving skills, earning Gold badges on HackerRank and CodeChef, ranking among top competitive programmers.

AI Research & Innovation Award (2024)
  • Proactively researched and implemented emerging AI trends, integrating cutting-edge machine learning technologies to drive innovation and continuous learning in AI development.