YAHIYA V

+91 7558192904 | Mail | Linkedin | Github | Portfolio
B. Tech AI & DS Graduate

PROFESSIONAL SUMMARY

Enthusiastic B. Tech graduate in Computer Science and Engineering with specialization in AI and Data Science, possessing strong skills in Python, Java, SQL, and machine learning algorithms. Proficient in tools like Tableau, Power BI, OpenCV, and Figma, with interests in backend development, computer vision, and building scalable AI applications. Seeking entry-level roles in AI/ML or data science to leverage problem-solving abilities and deliver impactful data-driven solutions.

SKILLS

Technical Skills: Python, C, Java, Scala, SQL, HTML, CSS, Git, Linux
Domain Skills: Machine Learning Algorithms, Data Science, Data Visualization, Deep Learning, Generative AI
Soft Skills: Problem Solving, Teamwork, Leadership

PROJECTS

Face Recognition System

- Tools: Python, Tkinter, OpenCV
- Developed a full-stack application to solve real-time authentication problems in security systems by implementing facial recognition models.
- Achieved 95% accuracy in detection, enhancing user experience and application functionality with integrated front-end and back-end logic.

Stock Market Prediction with Sentiment Integration

- Tools: Python, HTML, CSS
- Developed a modular Python-based framework to predict stock trends by integrating historical financial data with sentiment analysis from news and social narratives.
- Enhanced model resilience by applying sentiment-based weight adjustments to quantitative metrics, enabling multi-factor forecasting beyond traditional price patterns.

Crop Vision AI: Predictive Modeling for Sustainable Agriculture

- Tools: Python, XGBoost, PyTorch, SHAP, Flask, Chart.js
- Built a hybrid dual-model system (XGBoost for feature importance and CUDA-accelerated DNN for deep analysis) to forecast crop yields across 10 Indian regions using synthetic datasets.
- Incorporated SHAP explainability for transparent "what-if" simulations via a Glassmorphism dashboard, improving accuracy to 95% and supporting SDG-aligned decisions for insurance and land-use planning.

Generative AI for Drug Discovery: Molecular Design and Property Prediction

- Tools: Python, PyTorch, PyTorch-Geometric, RDKit, Streamlit
- Created an end-to-end pipeline using VAE for de novo molecule generation from ZINC250k dataset and GNN for predicting properties like LogP, MolWt, TPSA, and QED.
- Achieved high validity and novelty in generated molecules (e.g., Tanimoto similarity <0.4), accelerating lead discovery through an interactive dashboard optimized for RTX 3050 hardware.

INTERNSHIP EXPERIENCE

Program Developer Intern Jazaa Projects, Chennai, India June 2023 (6 months)

- Led a team of 4 in developing a Python-based facial recognition system, managing back-end logic and front-end interactions using Tkinter and computer vision models.
- Enhanced application functionality, reducing response times by 15% and improving overall user experience.

EDUCATION

Bachelor of Technology in Computer Science and Engineering, Specialization in AI and Data Science Crescent Institute of Science and Technology, Chennai, India 2021 - 2025

- CGPA: 7.37
- Relevant Coursework: Machine Learning, Deep Learning, Data Analysis, Data Visualization, Artificial Intelligence, Spark, Computer Vision, NLP, DBMS, Cloud Computing

CERTIFICATIONS

- Image Processing with OpenCV (Online, 2023)
- Robotics, AI, and IoT - Intel's RAI Program (2023)

ACHIEVEMENTS

- Served as Lead Editor for Extra Curriculars Meet and Arcane events, CSE Department (2023-2024), managing content and team coordination.
- Managed events for E-Sports Club (2023), demonstrating leadership and organizational skills.
- Volunteered at BeCrez Carnival'24 (2023), contributing to community building and event execution.