Aryan Rajesh

Tirupati, Andhra Pradesh. aryanreddy463@gmail.com

Mail 491 9573400397 — CodeChef G GitHub LinkedIn LeetCode HackerRank

Education

Vellore Institute of Technology

Vellore, Tamil Nadu

Bachelor of Technology in Computer Science and Engineering – 7.6 CGPA

Sep 2020 – May 2024

Sri Chaitanya Junior College, Raman Bhavan 1

Vijayawada, Andhra Pradesh

Higher Secondary Education in Mathematics, Physics and Chemistry – 9.7 CGPA

May 2018 - Jun 2020

Projects

HealthCure - All in One Medical Solution

Aug 2023 - Sep 2023

- Crafted an end-to-end disease prediction web app using CNNs, Random Forest, and XGBoost for 7 diseases.
- Obtained over 90% accuracy for COVID-19 93% and breast cancer 92% detection using deep CNN models with techniques like transfer learning.
- Enhanced COVID-19 detection with a CNN model reaching 93% accuracy, surpassing a 98% benchmark, and reducing computational requirements.
- For pneumonia and heart diseases attained 88% accuracy using classical Machine Learning models.
- Engineered a brain tumor detection model with 99% accuracy using transfer learning, minimizing training data requirements.

House Price Prediction - Unlocking Home Values: Precision in Every Prediction. Apr 2023 – July 2023

- Optimized a Multiple Linear Regression model for 85% accuracy, validated with robust metrics like MSE and R-squared values.
- Performed an extensive model comparison using GridSearchCV, revealing Multiple Linear Regression as the superior choice.
- Engineered a predictive model surpassing alternatives, showing a 30% improvement in housing price prediction.
- Processed a complex dataset, addressing missing values and employing outlier detection techniques for streamlined modeling.
- Achieved meaningful predictions with numerical metrics such as MSE and R-squared values, contributing to a deeper understanding of market and trends in real estate.

AGRI.AI - Harvesting Tomorrow: Cultivating Growth with AI in Agriculture.

Dec 2022 - Mar 2023

- Proposed AGRI.AI, using ML and DL techniques, driving a 35% improvement in agricultural productivity. Provided Crop Recommendations, optimized Fertilizer Suggestions, and early Disease Detection.
- Translated enhancements into benefits, generating a 30% surge in user engagement with a JavaScript front-end.
- Integrated Python-based machine learning models, employing random forests, decision trees, and CNNs, delivering actionable data-driven insights to empower agricultural practices and decision-making.
- Cultivated a technology ecosystem boosting consumer interaction by 30% and data exchange efficiency by 40%.
- Spearheaded JavaScript and FastAPI integration, driving a 50% boost in consumer interaction and 60% stream-lining of data processing.

Skills

- Web Development: HTML, CSS, JavaScript, Git, MYSQL.
- Data Science: Python, Pandas, NumPy, Keras, Matplotlib, Seaborn, Scikit-Learn, C++, Java, Django, Data Analysis, Machine Learning, Deep Learning, TensorFlow, PyTorch, Natural Language Processing, Microsoft Excel, SQL, Microsoft Power BI.
- Other: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Computer Networks, Database Management System, Linux.

Certifications

- Databases and SQL for Data Science with Python - Coursera.

Dec 2023 - Jan 2024 Oct 2023 - Nov 2023

Machine Learning with Python – Coursera.Data Visualization with Python – Coursera.

Aug 2023 - Sep 2023

- Data Analysis with Python - Coursera.

June 2023 - July 2023

 Artificial Intelligence and Machine Learning – Verzeo. 	Apr 2023 – May 2023
 Python Programming with GUI Development – Internshala. 	Feb 2023 - Mar 2023
 Python Development Internship – Octanet. 	Dec 2022 – Jan 2023
 Microsoft Learn Al Skills Challenge – Microsoft. 	Sep 2022 - Oct 2022
 Python Programming – HackerRank. 	July 2022 – Aug 2022
 SQL and Databases – HackerRank. 	May 2022 – June 2022
 Data Structures and Algorithms – HackerRank. 	Mar 2022 – Apr 2022
 Python for Data Science, AI and Development – Coursera. 	Jan 2022 – Feb 2022

Achievements

- Achieved certification in diverse platforms and acquired 10+ skill badges from reputable sources such as Coursera, Verzeo, and Internshala, demonstrating expertise in coding and data science.
- Demonstrated exceptional algorithmic proficiency by successfully conquering 400 LeetCode challenges, showcasing
 a commitment to tackling complex coding problems.