# Aryan Rajesh

Tirupati, Andhra Pradesh. aryanreddy463@gmail.com

Mail 491 9573400397 — CodeChef G GitHub LinkedIn LeetCode HackerRank

## **E** Education

#### **Vellore Institute of Technology**

Bachelor of Technology in Computer Science and Engineering - 7.6 CGPA

Sri Chaitanya Junior College, Raman Bhavan 1

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

Vellore, Tamil Nadu Sep 2020 – May 2024

Vijayawada, Andhra Pradesh

May 2018 - Jun 2020



HealthCure Aug 2023 – Sep 2023

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

House Price 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.
- Applied advanced statistical techniques to analyze market data, resulting in precise predictions with MSE and R-squared values; empowered stakeholders to make data-driven decisions in real estate market analysis, fueling revenue growth and strategic investments.

**AGRI.AI** Dec 2022 – Mar 2023

- Designed AGRI.Al using ML and DL techniques, driving a 35% improvement in agricultural productivity through 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.
- Leveraged state-of-the-art ML techniques using random forests alongside CNN implementations; identified the 3 biggest causes affecting low crop yields across diverse farms in targeted regions.
- Cultivated a technology ecosystem boosting consumer interaction by 30% and data exchange efficiency by 40%.
- Directed JavaScript and FastAPI integration, driving a 50% boost in consumer interaction and 60% streamlining of data processing.

### 🖐 Skills

- Web Development: HTML, CSS, Tailwind CSS, Bootstrap, JavaScript, Git, GitHub, MYSQL.
- Data Science: Python, Pandas, NumPy, Keras, Matplotlib, Seaborn, Plotly, Scikit-Learn, NLTK, Hugging Face Transformers, C++, Java, Django, Data Analysis, Artificial Intelligence, Machine Learning, Deep Learning, TensorFlow, PyTorch, Natural Language Processing, LLM, GPT-3.5, BERT, Microsoft Excel, SQL, Microsoft Power BI.
- Other: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Computer Networks,
   Database Management System, Linux, Probability, Statistics.

# **?** Certifications

<ul> <li>Databases and SQL for Data Science with Python – Coursera.</li> </ul>	Dec 2023 – Jan 2024
<ul> <li>Machine Learning with Python – Coursera.</li> </ul>	Oct 2023 - Nov 2023
<ul> <li>Data Visualization with Python – Coursera.</li> </ul>	Aug 2023 – Sep 2023
<ul> <li>Data Analysis with Python – Coursera.</li> </ul>	June 2023 - July 2023
<ul> <li>Artificial Intelligence and Machine Learning – Verzeo.</li> </ul>	Apr 2023 – May 2023
<ul> <li>Python Programming with GUI Development – Internshala.</li> </ul>	Feb 2023 – Mar 2023
<ul> <li>Python Development Internship – Octanet.</li> </ul>	Dec 2022 – Jan 2023
<ul> <li>Microsoft Learn Al Skills Challenge – Microsoft.</li> </ul>	Sep 2022 – Oct 2022
<ul> <li>Python Programming – HackerRank.</li> </ul>	July 2022 - Aug 2022
<ul> <li>SQL and Databases – HackerRank.</li> </ul>	May 2022 – June 2022
<ul> <li>Data Structures and Algorithms – HackerRank.</li> </ul>	Mar 2022 – Apr 2022
<ul> <li>Python for Data Science, Al and Development – Coursera.</li> </ul>	Jan 2022 – Feb 2022

# Achievements

- Achieved certification in diverse platforms and acquired 10+ skill badges from reputable sources such as Microsoft,
   HackerRank, Coursera, Octanet, 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.