

Rahul

Mobile: +91-6398792951
Email : Rahulsaini11204@gmail.com
Portfolio : <https://rahul7697762.github.io/Portfolio-Website/>
GitHub : <https://github.com/rahul7697762>
LinkedIn: <www.linkedin.com/in/rahul1232/>
HackerRank: <https://www.hackerrank.com/profile/sainirahul5087>

SKILLS

- **Languages:** C++, JavaScript, C, Java, Python, SQL
- **Machine Learning:** Supervised and Unsupervised Learning, Feature Engineering, Data Preprocessing, Model Deployment
- **Tools and Frameworks:** NumPy, Pandas, Matplotlib, ScikitLearn, Flask, PyTorch, TensorFlow, MySQL, AWS, Docker
- **ML Algorithms:** K-Means, Linear Regression, Logistic Regression, Random Forest, SVM, Naïve Bayes, Decision Tree
- **Core Concept:** Data Structures & Algorithms, Engineering Mathematics, OOPS
- **Soft Skills:** Problem-Solving, Team Collaboration, Project Management, Adaptability

PROJECTS

- **Crop Guidance System – ML – Powered Agricultural Decision Tool** April, 2025
Built an ML system to recommend crops and precautions using feature engineering and Data Preprocessing techniques, improved decision accuracy for farmers by ~85%.
Implemented **Random Forest and XGBoost models** for predicting crop suitability and rainfall trends (**R² = 0.89**).
Applied **K-Means clustering** to segment regions by agro-climatic patterns for **location-specific guidance**.
Integrated **real-time weather data** via OpenWeather API
Tech Python, Pandas, Numpy, Scikit-Learn, XGBoost, K-Means, Flask, OpenWeather API | 2025
- **Gender and Age Detection using OpenCV** Dec, 2024
Designed and implemented a deep learning-based system for gender and age detection using Convolutional Neural Networks (CNNs).
Utilized OpenCV for image processing, TensorFlow/Keras for model training, and Flask for deployment.
Achieved **96%** accuracy after hyperparameter tuning and evaluated performance using precision and recall metrics.
Tech: Python, TensorFlow, Keras, OpenCV, NumPy, Pandas

CERTIFICATES

- Machine Learning Specialization by DeepLearning.ai January, 2025
- Python (Basic) Certificate – HackerRank October, 2023
- Java (Basic) Certificate – HackerRank February, 2025
- SQL (Basic) Certificate – HackerRank May, 2024
- Mastering Data Structures & Algorithms by Iamneo June, 2024
- The Complete Python Pro Bootcamp for 2024 by Dr. Angela Yu (Udemy) March, 2024
- Introduction to Large Language Models by Google cloud December, 2024

ACHIEVEMENTS

- **5★ in Python, 4★ in C++, 3★ in C and 3★ in SQL on HackerRank:**
- Demonstrated strong language-specific and problem-solving skills on HackerRank platform.
- **Developed an Educational Website and secured 11th Rank:**
- Rank 11th in a web development competition organized by CipherSchools.

EDUCATION

- **Lovely Professional University** Punjab
Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.6** Since August 2023