

# Rayyan Kauchali

 +91 9921166545     Pune, Maharashtra, India  
 rayyankauchali77@gmail.com     www.rayyankauchali.com  
 linkedin.com/in/rayyankauchali     github.com/rayyankauchali

## EDUCATION

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### Master of Science in Data Science and Big Data Analytics,

MIT World Peace University  
Pune, India

Expected 2026

### Bachelor of Science in Computer Science,

MIT World Peace University  
Pune, India

2021 – 2024

CGPA: 8.85

## SKILLS

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**Technical Skills** Python, SQL, Scikit-Learn, TensorFlow, Power BI, Hadoop, Spark, AWS

**Soft Skills** Problem-Solving, Teamwork, Analytical Thinking, Adaptability

## PROJECTS

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### AI-Powered Resume Analysis & Job Matching Platform

- Engineered a dual-portal web platform: an HR dashboard for batch uploading and automated scoring of resumes against job descriptions, and a student portal enabling personalized resume health checks and compatibility analysis.
- Leveraged NLP techniques to extract key skills, match candidate experience, and highlight fit, automating the pre-screening workflow for significant time savings in hiring.
- Designed intuitive interfaces for recruiters and job seekers to present clear compatibility reports, skill gap insights, and actionable improvement recommendations.

### Brain Tumor Classification using IDTNet

- Developed a hybrid convolutional model (IDTNet) by integrating Inception modules, DenseNet connections, and custom transition layers for robust multi-class MRI tumor classification.
- Achieved up to 98% accuracy and 0.98 F1-score, outperforming established deep learning architectures in classifying glioma, meningioma, pituitary, and normal cases.
- Implemented extensive data augmentation and validated robustness, ensuring high recall and precision on clinical-grade imaging datasets.

### Emotion Detection System using DeepFace

- Built an automated real-time emotion recognition module leveraging DeepFace for facial expression analysis in video and images.
- Enabled multi-emotion classification (happy, sad, angry, neutral, etc.) with high accuracy through advanced deep learning methods.

## EXTRA-CURRICULAR ACTIVITIES

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- Conducted research on Brain Tumor Classification using custom deep learning models.
- Received the "MIT-WPU Workthon Participation" certificate for contributions to project innovation.