

Rayyan Kauchali

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EDUCATION

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

Technical Skills	Python, SQL, Scikit-Learn, TensorFlow, Power BI, Hadoop, Spark, AWS
Soft Skills	Problem-Solving, Teamwork, Analytical Thinking, Adaptability

PROJECTS

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

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