Rahul Jana

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Kolkata, India

EDUCATION

CHANDIGARH UNIVERSITY
BE in Computer Science and Engineering
June 2022 | Punjab, India
CGPA: 7.35 / 10.0

MIDNAPORE COLLEGIATE SCHOOL (H.S.)
May 2017 | Midnapore, India
Percentage: 73.6

LINKS

Github:// **RahulJana**
LinkedIn:// **rahuljana-4**
HackerRank:// **RahulJana4_6091**

COURSEWORK

Machine Learning with Python
Deep Learning
Computer Vision
Image Processing
Natural Language Processing
Database Management System
Operating Systems
Computer Networks

SKILLS

PROGRAMMING

• Python • TensorFlow • Keras
• OpenCV • Java • HTML • CSS
• JavaScript • React • Node
• MongoDB • MySQL

CERTIFICATES

• Machine Learning - Stanford University, Coursera
• Neural Networks and Deep Learning - DeepLearning.AI, Coursera

ACHIEVEMENTS

• Developed a Voice-Controlled Switch Box, which was selected for **Socially Relevant Project** and **APJ Abdul Kalam Innovation Conclave** at CU.
• 5 Star Java and C++ programmer at HackerRank
• Intern of the Month(May,2022) at Springworks.

EXPERIENCE

SPRINGWORKS | Machine Learning Intern
September 2021 - July 2022 | Remote

Document Parser:

- Built several components for Document Quality detection and Improvement for checking different document components(Govt. IDs).
- Handled edge cases on document quality and decreased manual work required.
- Developed a DL model for detecting and correcting tilt in the uploaded document.
- Implemented both Rule-Based and Machine Learning methodologies to achieve results.
- **Tools Used:** Python, TensorFlow, OpenCV, Git, Docker, AWS.

Crypto Project:

- Refactored the trading Algorithm from R to Python.
- Optimised the run-time in the cloud with live trading data. Applied various methodologies such as caching and Modin implementations.
- Improved the run-time from 750 seconds to 590 seconds(20% improvement) with the live data.
- **Tools Used:** Python, R, Modin, Ray, Git, Docker, AWS.

PROJECTS

HABITABLE EXO-PLANET CLASSIFICATION | Github

- Developed a Habitable Exo-Planet Classification System, based on the **data** collected from **NASA's Kepler Space Telescope** using **Transit Method.**
- Achieved the highest accuracy of **99.56%** with CNN.
- Used SMOTE technique to fix imbalanced data in the Dataset(1:135).
- **Tools Used:** Python3, TensorFlow, scikit-learn, AutoML, Streamlit.

MUSIC RECOMMENDATION SYSTEM | Github

- Developed a music recommendation system with **10 million songs dataset**, which can recommend songs and provide YouTube links based on users' previously played songs.
- Used PCA and Item Based Filtering for recommendations.
- **Tools Used:** Python3, scikit-learn, Django, HTML, CSS.

VOICE CONTROLLED EXTENTION BOX

- An extension box that can be operated manually and/or via Voice Control Mode(via mobile Bluetooth[Android mobile]).
- This was selected as a Socially Relevant Project, as it helps people with medical conditions related to motor movement.
- **Tools Used:** Arduino UNO, Basic hardware, Android Mobile(For sending commands), Android version 6 or above.

PUBLICATIONS

S.Gulati, A.K.Rastogi, M.Virmani, R.Jana, R.Pradhan, C.Gupta: Paint / Writing Application through WebCam using MediaPipe and OpenCV. **IEEE**, **ICIPTM.**