AJAYAN G SAROJ

Data Scientist

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📍 **Pune**

SUMMARY

Passionate and skilled Data Scientist with a background in developing innovative solutions for global businesses. Experienced in leveraging technologies like LLMs, NLP, and AI to enhance systems and drive efficiency. Proficient in Python, Machine Learning, and Deep Learning. Excited about contributing to companies that align with leveraging digital, data, and cloud technologies to solve complex challenges.

EXPERIENCE

Data Scientist

Aventior Digital

📅 10/2023 - Present   📍 Pune

Aventior is a technology services provider focused on developing solutions that leverage Digital, Data, and Cloud for global businesses.

- Develop on custom LLM solution for our health care client
- Develop AutoExtraction engine to digitize the scanned documents
- Develop a Auto-annotation solution for one of our international client
- Improved and optimised existing pipeline and solutions of existing systems
- Built a solution for fraud detection solution for our BFSI client

Data Scientist

Bert Labs

📅 06/2023 - 08/2023   📍 Bangalore

We are solving complex problems through Bert Platform SolutionTM innovation

- Trained and built ML model for Energy Efficiency Improvement and Thermal, Air Quality Comfort in Commercial Buildings.
- Developed and trained Reinforcement Learning Model for one world biggest Airport client.
- Developed Scripts to Automate ongoing process for ongoing preprocessing for global consumer goods company.

EDUCATION

M.Tech in Data Science

IIT Roorkee

📅 07/2021 - 05/2023

B.E in Electronics

University Of Mumbai

📅 08/2016 - 05/2020

SKILLS

Python	Machine Learning	GenerativeAI	LLMs	MySQL	NLP	Time Series Analysis
Computer Vision	Deep Learning	Statistics	Git/Github	Reinforcement Learning	Numpy
Pandas	Big Data	R	Power BI	Artificial Intelligence	Tableau

STRENGTHS

💎 **Innovative Problem Solver**

Passionate about developing creative solutions to complex challenges for global businesses.

💎 **Technologically Proficient**

Skilled in leveraging advanced technologies like LLMs, NLP, and AI to enhance systems.

STRENGTHS

Python Expertise

Proficient in Python programming language for developing machine learning and deep learning models.

Team Collaboration

Effective in collaborating with teams to optimize existing systems and drive efficiency improvements.

ACHIEVEMENTS

LLM Healthcare Solution

Developed custom LLM solution improving health care client operations.

Fraud Detection System

Built fraud detection for BFSI, enhancing security measures.

AI Airport Efficiency

Trained RL model for major airport, boosting operational efficiency.

Automation in Digitalization

Created AutoExtraction engine, digitizing thousands of documents.

PROJECTS

Thesis - Deep learning for fake image detection

📅 05/2022 - 05/2023   📍 Valandovo, Macedonia

The objective of this project is to identify fake images, here our model trains the discriminator model in such a way that it recognize the fake images

- Tools: Pytorch,Python,Deep Learning,OpenCV,Matplotlib

Musical notes procreation using deep learning

📅 01/2022 - 04/2022   📍 Roorkee

The problem statement is to generate a melody using deep learning for that RNN and particularly LSTM structure is used to predict the next subsequent notes

- Tools: Tensorflow,Python,Matplotlib,Numpy,midi2audio

Smart Switch Board Compatible with Google Assistance Along With Face Recognition And Security System

📅 08/2019 - 03/2020   📍 Mumbai

To operate over fully home automated system which provides user vast reliable features from simple switch control to features like face recognition approach to control different household appliances, which can be achieved by algorithms like CNN

- Tools: Python,Arduino UNO,NodeMCU,Relay Module,Bulb

Cancer Survival Status

📅 05/2022 - 06/2022   📍 Roorkee

Survival status of the patient is predicted by performing Exploratory Data Analysis. The main consideration when carrying out EDA is to keep the project's objective in mind. In this context, the objective is to forecast whether a patient will survive from surgery or not.

- https://cancer-status-eda.herokuapp.com/
- Tools: Python,Numpy,Geopy

American sign language detection using CNN

📅 01/2022 - 02/2022   📍 Roorkee

ASL provides the deaf community a way to interact within the community itself as well as with the outside world.However, not everyone knows about signs and gestures used in sign language. With the advent of Artificial Neural Networks and Deep Learning, it is now possible to build a system that can recognize objects or even objects of various categories. The Kaggle ASL alphabet dataset was used to develop the CNN model, which has an 82% classification accuracy. The neural network is built using the Pytorch, with CNN layers added initially and ANN layers added after.

- Tools: Python,Pytorch,OpenCV

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Teaching Assistant (Machine Learning) | IIT Roorkee　　📅 08/2022 - 01/2023

To conduct a variety of teaching and assessment activities, including, in some cases, tutorials, seminars, and lectures,assisting in the creation of instructional materials that meet learning objectives in terms of content and delivery strategies

Department placement representative | IIT ROORKEE　　📅 08/2021 - 06/2023

Communicate with PIC on behalf of Department

PUBLICATIONS

Smart Switch Board Compatible with Google Assistance Along with Face Recognition and Security System

International Research Journal of Engineering and Technology IRJET

Soniya Abhyankar, Ajayan Saroj, Shital Patole

📅 06/2019 - 02/2020　　🔗 https://www.irjet.net/archives/V7/i2/IRJET-V7I2162.pdf

International Research Journal of Engineering and Technology (IRJET) Volume 7, Issue 2, February 2020
https://www.irjet.net/volume7-issue2 S.NO:162, International Research Journal of Engineering and Technology (IRJET), 2020