Santanu Kumar

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EDUCATION

Veermata Jijabai Technological Institute   Mumbai, India | 2019-2023(expected)
BTech in Electronics and Telecommunication

Atomic Energy Central School-4   Mumbai, India | 2017-2019
HSC | 92.2%

WORK EXPERIENCE

FPGA Developer intern   Mumbai, India | Dec 2021 – Jan 2022
Tata Institute for Fundamental Research

- Worked on a customized ZYNQ Board to automate its testing and fixed bugs in the code which writes into the EEPROMs and then reads back using i2c tools.
- The automation reduced the testing time by 30 %.

PROJECTS

MOVIE RECOMMENDATION SYSTEM ⬈   Machine Learning,Python,Recommender systems
Oct 2021 - Nov 2021
Used TMDB dataset of over 5000 movies,preprocessed,trained and built a webapp using streamlit to display movie recommendations based on content based filtering using cosine similarity.

MEDICO BUDDY ⬈   Machine learning,Python, Flask,Google Dialogflow
Jun 2021 – Aug 2021
Flask ML web app which predicts the probability of 4 diseases and medical insurance cost required.Made an interactive CHATBOT to engage and help the users navigate through the webapp.It employs different ML models to predict the diseases with over 96-97% accuracy

AI COVID DETECTOR ⬈   Deep learning,Python, Flask
Jan 2022 – Feb 2022
Made a flask webapp for Detection of Covid-19 in patients from Chest Radiography Images(X-RAYS) using Xception CNN Architecture with over 95% accuracy.

BOLLYWOOD FACE SIMILARITY ⬈   Deep learning, Transfer learning, resnet-50,vggface
Mar 2022 – Apr 2022
Used VGGFace and Resnet50 model we extract features from the photos of the celebrities. It predicts the similar matching Bollywood celeb based on cosine similarity of the pictures.

SKILLS

Interests: Machine Learning• Data Science • Deep Learning• Blockchain• Opensource
Languages: Python• C++• C• Solidity• SQL
Frameworks: Scikit-learn• Numpy • Pandas• Flask• Django • Tensorflow
Familiar: Web3• React• OpenCV• JavaScript • HTML/CSS• NoSQL

ACADEMIC ACHIEVEMENTS

- JEE rank - 21000 • MHCET rank - 1400 • Qualified and cleared Science Olympiads conducted by Science Olympiad Foundation

POSITIONS OF RESPONSIBILITY

- Sponsorship executive and Public Relations head at Technovanza,VJTI
- Founding member and Joint General Secretary at Vishwa Astroclub,VJTI

INTERESTS

Astrophysics • Game theory • Artificial Intelligence • Reading • Cryptocurrencies • International Relations