

Santanu Kumar

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EDUCATION

Veermata Jijabai Technological Institute
BTech IN ELECTRONICS AND TELECOMMUNICATION
Atomic Energy Central School-4
HSC | 92.2%

Mumbai, India | 2019-2023(expected)

Mumbai, India | 2017-2019

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

GENUINE CHARITY APPLICATION

BLOCKCHAIN,SOLIDITY,NODE JS, GANACHE-CLI,MOCHA

Mar 2021 - May 2021

Prevents Malpractices like Money Laundering through Charity Organizations and make their financial transactions more secure using Smart Contracts on Ethereum.Used web3, ganache-cli, mocha to test out our contract.

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.

ETHERGRAM

BLOCKCHAIN, REACTJS, IPFS

Aug 2021 – Sep 2021

A decentralized version of Instagram running on Ethereum blockchain. Created a smart contract with solidity, frontend with ReactJS and, Fetched and stored data from IPFS network.(InterPlanetary file system)

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 Administration head at Vishwa Astroclub,VJTI

INTERESTS

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