Pursuing a Minor in the Entrepreneurship at Desai Sethi School of Entrepreneurship, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Recipient of the Kishore Vaigyanik Protsahan Yojana Exam (KVPY) fellowship in SX division (2021)
- Recipient of the National Talent Search Examination (NTSE) Scholarship awarded by the NCERT (2020)
- Scored a percentile of **98.93** in **JEE Main** examination among **10,00,000**+ aspirants all across India (2022)
- ullet Scored a percentile of 96.87 in JEE Advanced examination among 1,50,000+ aspirants all across India (2022)
- Achieved Silver Medal in Dr. H. Bhabha Balvaidnyanik Exam, surpassing 80,000+ aspirants statewide (2019)

KEY PROJECTS AND EXPERIENCE.

InstiApp: Buy and Sell | App Development Project - Developers' Community (Mar '23 - May '23)

- Worked on InstiApp with over 10,000+ downloads and 2,500+ MAUs meeting the info-social needs of campus
- Created a user-friendly front-end interface allowing users to put their goods online on **Buy and Sell Portal** on InstiApp, **currently functioning feature** facilitating the campus residents in buying and selling their goods online

Mess Digitalization | App Development Project - Developers' Community (May '23 - Present)

- Maintaining a platform of digitalized mess management in 10+ hostels serving 10,000+ people on the daily basis
- Developed a **Flutter**-based **remote configuration** system for Mess-i Tablets which facilitates **remote debugging** of issue, also implemented an **'Extras'** feature to current dashboard streamlining access to additional meal options

Natural Language Processing Model | Learners' Space - Web and Coding Club (Summer '23)

- Applied Skip-Gram model, word-embedding in NLP using PyTorch and developed NN for Sentiment Analysis
- Implemented optimisers in sequential NN model for Binary Classification tasks leading in better test results
- Fine-tuned a pre-trained model to perform as a Movie QnA model which involved training on bespoke selfcurated data-set specifically for movie domain and created an app in Gradio for easy and simplified interaction

Image Processing & Object Detection | Summer of Code - Web and Coding Club (Summer '23)

- Metal Porosity Calculator Developed a sophisticated model using OpenCV to analyse highly magnified metal surface images utilizing methods as thresholding and contour-placements, with huge real-world applicability
- Developed a live, highly configurable settings system enabling parameter adjustments for more accurate results
- Money Counter Developed contour-based object detection model utilising Canny edge-detection & data-filters

Computer Architecture Projects | Course Project : CS-232 - DLDCA Lab

(Autumn '23)

Instructor: Prof. Biswabandan Panda

(IIT Bombay)

- Binary Music Encoder Engineered a VHDL based sequential encoder to precisely identify and convert binary value of notes into synchronized byte output, representing the chords their respective collection of notes
- MIPS Programming Incorporated different algorithms in MIPS for a query handling program that sorts the inputs utilising Heap Sort algorithm and searches efficiently through Binary Search algorithm in the sorted data

Data Analysis Projects | Course Project : CS 215 - Data Analysis and Interpretation (Spring '23)
Instructor: Prof. Ajit V. Rajwade (IIT Bombay,

• MRI Scans Analysis - Analysed MRI scan images to calculate the correlation co-efficient, Quadratic Mutual Information (QMI) to measure dependence and repeated the same for negatives to compare the quantitative results

Positions Of Responsibilities

Core Member | Institute Developers' Community, IIT Bombay

(Jan '23 - Present)

Part of 25+ member team, responsible for design, development and maintenance of projects for institute

- Developed new features like **Buy and Sell Portal** currently **active** and proved to be immensely successful with over **120+** product posts for sale since it's launch, *General Championship Leader board to the InstiApp
- Incorporated remote configuration feature in existing Mess-i application that facilitating remote debugging

TECHNICAL SKILLS

LanguagesC/C++, Python, Bash, x86 and MIPS Assembly, VHDL, DART, GitData Science LibsPyTorch, TensorFlow, NumPy, Pandas, MatPlotLib, SciPy, spaCy

Development Flutter, Angular, Django, TypeScript, CSS, Bootstrap, HTML, Javascript