

Shivam Rajput

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EDUCATION

Birla Institute of Technology Science Pilani, Hyderabad Campus *Sept 2022 - May 2024*
Master in Engineering in Computer Engineering

Savitribai Phule Pune University *July 2018 - May 2022*
Bachelor of Engineering in Computer Engineering
Overall GPA: 9.3/10

PROJECTS

A Multi-Input, Multi-Task, Transformer-Based Architecture for Empathy and Distress Prediction [Link to the Paper](#)

- Developed a complex Transformer-Based Architecture to predict different types of psychological empathy based primarily on textual data aided by numerical and categorical data types.
- Achieved high distress correlation (0.574), and for the empathy correlation (0.517).

A Dataset and Framework for Multilingual and Code-Mixed VQA.

- Developed a comprehensive Visual Question Answering dataset for Marathi and Marathi+English Code-Mix language.
- This dataset consists of 80k images and 250k diverse questions and answers.
- Implemented a generalized pipeline for converting english datasets to almost any Indic Language.

PotterCode Programming Language [Try it Here!](#)

Winning Project at DelhiHacks National Hackathon 2020.

- Invented a new Turing complete Programming Language called PotterCode from scratch aimed at children to learn programming and get into the "programming mindset"
- Developed brand new syntax based on the Harry Potter Universe to ease the process of learning programming for kids.
- Employed concepts of Language Design, Theory of Computation to build an online transpiler using Peg.js for the parser and Node.js for the backend.

WORK EXPERIENCE

Junior Research Fellow at The Emerging Tech Foundation *Jul 2020 - Jun 2021*

I got to work with a team of researchers from India, USA and Nigeria on an improved consensus algorithm for the public Blockchain system.

Blockchain Intern at Lambda Vision *Nov 2019 - Dec 2019*

Collaborated with a global team with members from France, Romania, Egypt and India to work on maintenance and enhancement of the iXXO Blockchain.

PUBLICATIONS

PVG at WASSA 2021: A Multi-Input, Multi-Task, Transformer-Based Architecture for Empathy and Distress Prediction. [Link to the Paper](#)

Published at: 11th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA 2021), co-located with EACL 2021.

ACADEMIC ACHIEVEMENTS

- Leader of the winning team at "DelhiHack" National Hackathon 2020.
- Leader of the winning team at IBM Cummins Hackathon 2020.
- First rank in WASSA international shared task.
- Finalist at the Walchand College of Engineering Hackathon 2019.

TECHNICAL STRENGTHS

- **Languages-** C++, Python, Solidity, Java
- **Databases-** SQL
- **Tools-** Git, Github, Remix, Google Collab
- **Cloud Tech-** IBM Cloud, GCP, Firebase