HIRAJ BAGUL

New Brunswick, NJ

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Education

Rutgers University September 2021 - May 2023

Master of Science in Computer Science

New Brunswick, NJ

Pune University

August 2017 - June 2021

Bachelor of Technology in Computer Engineering | GPA:9.17/10.0

Pune, India

Experience

MIT Academy of Engineering

May 2020 - July 2020

NLP research Intern

Pune, India

- Evaluated findings and shortcomings of 25+ scholarly research articles. Read and summarized articles based on the topic of recommender systems and their use case in literature recommendations.
- Proposed a novel literature recommendation approach that **outperformed** standard literature recommendation approach by 30%.
- Implemented Publication Recommender System in Python based on new approach to recommend top 5 apt publications from 200+ journals and conferences to publish new scholarly articles.
- Presented and published the findings in IEEE conference: ICICT, 2021(2 Citations); Article Link.

USLAB, Inc April 2019 – June 2019

Software Developer Intern

Pune. India

- Co-operated to design and develop functional desktop application for attendance management system that made overall process 4x faster compared to traditional approach.
- Prepared the back-end of the system that stored each attendance record obtained from front-end processes on a Blockchain server.

Projects

Gamified Career Test | Godot, Gdscript, Python

September 2020 - May 2021

- Spearheaded a team of 6 to research on interdisciplinary topic and develop a desktop game application alternative to questionnaire based career test.
- Leveraged Gamification and Artificial Intelligence based techniques to design a game that can identify user's personality traits and predict career interests based on their gameplay.
- Collaborated with teammates to implement 2D storyline game using Godot game engine and Gdscript language (2500+ Lines of Code) to implicitly examine user's response to 50 questions from OCEAN model based personality test.
- Presented our novel idea at an International conference, ICRITO, 2021. And, this work will be published in Springer journal: "International Journal of Systems Assurance Engineering and Management (H-Index = 24);" Article Link.

Organized gathering for social distancing | HTML, CSS, JavaScript, Django

May 2020

- Demonstrated use of a web application for maintaining social distancing at commercial places.
- Maintained the real-time status of commercial places and helped customer scheduling their visits through web application.
- Competed in the Fightcovid hackathon, and earned position in the top 10% of 600+ participating teams.

Technical Skills

Languages: Python, C++, C, HTML/CSS, JavaScript, SQL Developer Tools: Atom, Jupyter Notebook, Godot, VS Code Technologies/Frameworks: Linux, Windows, GitHub

Leadership / Extracurricular

REDx-AI club

January 2020 - May 2021

MIT Academy of Engineering

• Led 25+ student innovators to conceptualize solutions that can aid the grand challenge of women's Maternal Health during Pregnancy.

• Arranged workshops on the REDx SPOT Process for innovation designed by Prof. Ramesh Raskar, MIT Media Lab, MIT, USA.

Coding Blocks

President

March 2020 - May 2021

Campus Ambassador

MIT Academy of Engineering

- Arranged 10+ coding workshops from industry experts and more than 500+ students took advantage of the workshops. • Played part in organizing and administering national level technical event "Datathon, 21" in which 25+ teams competed
- to receive exciting prizes that included paid internships at top tech firms.