Hiren Rajesh Rupchandani

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Education

Indiana University Bloomington **Bloomington, IN, USA**
Master of Science in Computer Science | GPA: 4.0/4.0 August 2022 - May 2024
Relevant Coursework: Applied Algorithms, Elements of Artificial Intelligence, Applied Machine Learning, Software Engineering, Applied Database Technologies, Data Mining, Engineering Cloud Computing, Computer Networks, Security for Networked Systems

University of Mumbai **Mumbai, India**
Bachelor of Engineering in Computer Engineering | GPA: 3.48/4.0 August 2016 - October 2020
Relevant Coursework: Operating Systems, Computer Networks, Object Oriented Programming, Analysis of Algorithms, Cloud Computing, Big Data Analysis, Natural Language Processing, Computer Vision

Skillset

Programming Languages: Python, C, C++, R, Java
Database and Web Technologies: HTML, CSS, JavaScript, PHP, MySQL, PostgreSQL, MongoDB, Neo4j
Python Libraries: Django, Flask, Pandas, Numpy, SkLearn, Tensorflow, Keras, PyTorch, Surprise, Matplotlib, Seaborn, Plotly, OpenCV, PySpark, NLTK, dplyr, ggplot
Relevant Tools: Git, Latex, Docker, Visual Studio, Anaconda, Jupyter, JIRA, Apache Airflow
Skills: Data Storytelling, Exploratory Data Analysis, Leadership, Agile, and Scrum

Experience

INSAID (International School of AI and Data Science) **Mumbai, India**
Data Science Researcher **March 2021 - April 2022**

- Boosted 3000+ customers' product usage by 30% as a result of working on more than 30 datasets to bring quality-of-life improvements to industry-pertinent learning tools at INSAID
- Contributed to a 50% reduction in technical support queries by leading INSAIDs data science research team for a qualitative product revamp
- Uplifted viewership of INSAID's Medium publication by 16 times (as of April 2022) by authoring and publishing 33 articles on topics of data science and artificial intelligence like Apache Airflow, End-to-End ML Model Deployment using GCP, Kaggle Competition Guides, and PySpark
- Amplified INSAID's YouTube viewership by 300% by hosting and interviewing 7 globally known data science and AI practitioners, live, on behalf of INSAID
- Improvised INSAID's Learning Management System traffic by 40% by teaching python along with its libraries like NumPy and Pandas to more than 1000 customers with a non-coding background

The Sparks Foundation **Mumbai, India**
Web Development Intern **January 2019 - March 2019**

- Increased secure transaction rate by 15% by improving the ACID constraints of transactions for the institute
- Performed a Paytm payment gateway integration into the website to diversify the methods for the donations made to the foundation

Projects

CrimsonBoard | **HTML, CSS, JavaScript, Django (Python), React, Azure MySQL, AWS EC2** **January 2023 - April 2023**

- A learning management system to enhance user experience with an intuitive interface resulting in an average of 20 hours spent on the platform per week and a completion rate of 90% for enrolled courses among the user base of over 1,000 students and instructors
- Improved website performance with Crimsonboards use of Django, React, and MySQL, achieving a load time of fewer than 2 seconds per page and a 50% reduction in server response time compared to other LMS platforms
- Facilitated seamless communication between students and instructors with the system's built-in chat functionality, leading to a 40% increase in student satisfaction and a 25% decrease in instructor response time

Video-Game Recommendation System | **Numpy, Pandas, Sklearn, Surprise, Tkinter** **April 2020 - October 2020**

- Streamlined video game selection process for new enthusiasts by deploying a collaborative filtering-based system that recommends the top 10 video games based on user preferences and favorite genres
- Accelerated the recommendation process for beginners by 30% by simplifying the cold-start problem by displaying the top 20 games based on recent popularity
- Enhanced the user experience by providing personalized recommendations resulting in higher engagement and satisfaction with an increase of 50% in the average number of games played per user

Cinematics | **HTML, CSS, JavaScript, PHP, MySQL** **March 2020 - May 2020**

- Designed a website for campus cinema with HTML, CSS, Javascript, and PHP where students can log in with their university accounts to book upcoming theatrics and show in the campus cinema and auditorium
- Integrated an efficient ticket booking system using JavaScript and MySQL that provides students with a graphical layout of the cinema hall or the auditorium to select their seats