

Hiren Rajesh Rupchandani

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Education

Indiana University Bloomington

Master of Science in Computer Science | GPA: 4.0/4.0

Bloomington, IN, USA

August 2022 - May 2024

Relevant Coursework: Applied Algorithms (A), Elements of Artificial Intelligence (A), Applied Machine Learning (A+), Software Engineering, Applied Database Technologies, Data Mining

University of Mumbai

Bachelor of Engineering in Computer Engineering | GPA: 8.25/10.0

Mumbai, India

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 INSAID's 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
- Improved 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 atomicity and integrity constraints of transactions to the institute
- Performed a Paytm payment gateway integration into the website to diversify the methods for the donations made to the foundation

Projects

Home Credit Default Risk

November 2022 - December 2022

- Leveraging Home Credit Group's competition dataset with 81 attributes and 300,000 rows to check which customers are prone to default on their loans and to determine potential customers who are capable of repaying their loans to generate a positive customer experience
- The team created an efficient machine learning pipeline with insightful EDA, and feature engineering along with various statistical, ensemble, and deep learning models to create accurate predictions for the default risk problem over 4 phases
- Scored a kaggle leaderboard score of 0.735 (AUC-ROC metric) with a PyTorch Neural Network

Video-Game Recommendation System

October 2019 - April 2020

- A system deployed to help new video game enthusiasts try different video games from the Steam video game store's database, based on their preferences
- After requesting video game preferences and favorite genres as a cold start, a collaborative filtering-based system recommends users the top 10 video games that the user might find useful

Cinematics

March 2019 - May 2019

- 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 shows 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