

Prathmesh Deshmukh

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prathyand



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Academic Qualifications:

Indiana University Bloomington

Aug 2021 – May 2023

Master's in Computer Science

Relevant coursework: Applied ML, Elements of AI, Applied Algorithms, Data Mining, Distributed Systems, Advanced OS

Indian Institute of Technology, Hyderabad

July 2013 – May 2017

Bachelor's in Mechanical Engineering

CGPA - 8.06/10.0

Relevant coursework: Computer Programming, Data Structures, Database Systems, Probability and Statistics

Technical Skills:

- **Programming Competency** - Python, C, Java, R, SAS
- **ML libraries and frameworks** – scikit-learn, PyTorch, TensorFlow, NumPy, Pandas, matplotlib
- **Databases and Frameworks** - MySQL, PostgreSQL
- **Software Tools and Technologies** - Docker, Eclipse, Anaconda, Jupyter Notebook, Android Studio, Matlab

Professional Experience:

Data Analyst | Flipkart Private Limited | Bangalore, India

March 2019 – July 2021

- Designed and developed SLA breach prediction model to identify potential lanes of high breach in supply chain using Python scikit-learn. Achieved 2% improvement in NPS score.
- Developed mathematical models in Python to predict SLA using demand-supply constraints in Flipkart's supply chain
- Built interactive web and mobile dashboards for tracking supply chain RCA metrics and automated using python, R and G-scripts. Dashboards were extensively used by leadership. Won quarterly innovation award for the same

Data science consultant | Wells Fargo India solutions | Bangalore, India

July 2017-March 2019

- Built classification model using decision trees to identify auto loan customer segment of higher prepayment probability
- Developed interest rate recommendation model for auto loans using different customer attributes keeping credit risk on priority. Performed exploratory analysis to quantify the impact of the model.
- Improved reporting process by automating monthly reports using SAS, VBA, Tableau and Excel

Project Intern | Boston Scientific | Gurugram, India

May 2016-July 2016

- Designed and developed prototype model for connectivity application that can read and write RFID sensor tags in medical implants and surgical tools
- Developed an automation framework for testing the application on android platform using Appium test automation

Application Developer Intern | NxtStepz Edu Connect| Bangalore, India

May 2015-July 2015

- Single-handedly developed and designed a social networking android application from scratch in a short span of 2 months without a prior experience in android development
- Leveraged Material Design Support Library for interface design, GreenDAO ORM for database and VOLLEY for JSON data parsing to implement data communication between the remote server and the application
- Added new features and performance improvements to the application and published the application on Play Store

Projects:

Tetris-AI-Bot

November 2021

- Developed an AI bot that plays the game of Tetris using Python
- Implemented best-first heuristic search algorithm to predict the best combination of moves (rotate, flip etc) to be performed on the falling piece.
- Used Python's multiprocessing library to leverage multiple processor cores for performance boost

Image Classification using CNN

January 2019

- Built a convolution neural network in PyTorch to classify fashion products into 10 different categories
- Performed grid search cross validation to tune hyperparameters
- Achieved the accuracy of 89% for the classification on test set