

Amulya Saxena

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EDUCATION

Rochester Institute of Technology, Rochester, NY

Aug 2022 – Dec 2024

Master of Science – Data Science

Current Courses: Predictive Analytics, Machine Intelligence, Database Design and Implementation, Applied Statistics, High Performance Data Science

University of Mumbai, Mumbai, India

Dec 2020 – Apr 2022

Master of Science – Computer Science

Relevant Courses: Artificial Intelligence, Data Science and Analytics, Applied Math and Calculus

University of Mumbai, Mumbai, India

Jun 2017 – Oct 2020

Bachelor of Science – Computer Science

EXPERIENCE

Data Axle, Pune, India

Jan 2022 – Jul 2022

Data Science Intern

- Engineered execution of data science pipelines, processing and analyzing over 60 gigabytes of data, resulting in 16% increase in data modeling accuracy leveraging machine learning techniques
- Recalibrated 2 pivotal industry projects: SIC Code Classification and an internal classification initiative, applying strategic planning in statistical modeling, APIs, and frameworks to attain a 20% improvement in initial model's performance
- Designed and optimized machine learning models for data categorization; revamped processing speed by 40% and accuracy by 30% deploying advanced natural language processing and data optimization methods
- Authored detailed documentation with report writing while following Agile methodology, using Confluence and Git to track project progress and support product development
- Delivered data driven presentations to senior leadership, including the MD, CTO, and CPO, influencing strategic decisions, and aiding in reduction of operation costs through effective data management and market research

D2K Technologies, Mumbai, India

Dec 2020 – Jan 2021

Data Analyst Intern

- Analyzed semi-structured data from more than 1,000 websites, uncovering trends facilitating business decisions. Built dashboards producing a 5% improvement in database quality, highlighting data-driven insights in reorganizing data assets
- Implemented 500+ Python-based web crawlers for data mining, automating data collection and increasing data accuracy by 16%
- Devised and established efficient ETL workflows, streamlining data acquisition and processing; saved 7 hours of manual effort each week, revising overall data handling efficiency by 25%

Golden Robot Animation, Mumbai, India

Apr 2019 – Jun 2019

Software Engineering Intern

- Boosted workflow efficiency in 2 major movie productions by refining Python scripts for 3D modeling and rendering, reducing script execution time
- Applied Python based database libraries to design graphical user interfaces (GUIs) and manage databases within Maya utilizing automated scripts to create and render 3D models

PROJECTS

Optimizing Trading Strategies Using Reinforcement Learning

Jan 2024 – Sept 2024

- Enforced statistical inference, data transformation and exploratory analysis techniques to optimize predictive modeling in the DJI Index to establish a baseline, generating a 30% increase in accuracy.
- Presently implementing an autonomous, data-driven trading system by using reinforcement learning algorithms to learn trading methods including mean reversion and breakout strategies.

Credit Risk Analysis

Sept 2023 – Dec 2023

- Leveraged predictive analytics on a real-world dataset of 887K loan applications. Achieved a 91.97% accuracy in identifying potential credit defaulters using Random Forest, contributing to sustainable risk management
- Applied advanced algorithms to predict loan defaulters. Engineered a Neural Network and obtained a remarkable 92.25% ROC AUC. Demonstrated expertise in enhancing financial decision-making and reducing losses

SKILLS

Languages/Tools: Python, React, Java, R, SQL, Jmp, MATLAB, Tableau, JIRA, Confluence, Docker, Git, AWS, JavaScript, MS Excel

Frameworks/Libraries: TensorFlow, PyTorch, Keras, SciPy, NumPy, Pandas, Scikit Learn, Matplotlib, OpenCV, NLTK

Certifications: AWS Certified Cloud Practitioner CLF – C02, Bloomberg Finance Fundamentals