

Rishil Kirtikar

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EDUCATION

New York University

New York, NY

Master of Science in Computer Science, GPA - 3.714

Jan 2021 - Dec 2022

- Relevant Courses: Database Systems, Cloud Computing, Mathematical Tools for Data Science, Computer Vision, Fundamental Algorithms, Natural Language Processing, Operating Systems, Social Networks

Vivekanand Education Society's Institute of Technology

Mumbai, India

Bachelor of Engineering in Computer Engineering, GPA - 8.556

Aug 2016 - Oct 2020

- Relevant Courses: Artificial Intelligence, Data Structures, Deep Learning, Big Data and Analytics, Data Warehousing and Mining

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, SQL, JavaScript, PHP, HTML/CSS
- **Frameworks:** Scikit-learn, Pandas, React, Pytorch, TensorFlow, Keras, Angular
- **Databases:** MySQL, SQLite
- **Tools & Services:** Git, Latex, Azure Machine Learning Studio, Google Cloud Platform

PROFESSIONAL EXPERIENCE

New York University

New York, USA

Graduate Teaching Assistant

Jan 2022 – Present

- Teaching assistant for Professor. Davi Geiger's Vision Meets Machine Learning graduate course at the Courant Institute of Mathematical Sciences, NYU.
- Responsibilities are grading, holding office hours, answering questions on the student portal, and working on course material.

Xoriant Solutions Pvt Ltd.

Mumbai, India

Associate Software Engineer

Sept 2020 – Dec 2020

- Gained hands-on experience with React/Redux, APIs, Git
- Developed multiple web applications using React JS, CSS/SASS, Bootstrap and Firebase
- Worked on various Java applications in Eclipse

Cerelabs Pvt. Ltd.

Mumbai, India

Artificial Intelligence Intern

Dec 2018 – Jan 2019

- Worked on deep learning models such as R-CNN, Faster R-CNN, YOLO to perform handwritten text detection
- Used different python modules such as OpenCV, NumPy, SciPy to perform operations on images like thresholding, segmentation etc. to get the best results
- Conducted Research on different de-skewing techniques

PROJECTS

Catchment Area Detection and Optimization *(Python, Azure Machine Learning Studio, SQL, HTML/CSS)*

- Designed and developed a new approach for predicting whether a particular region could face a drought in near future by applying machine learning algorithms on historic climate data
- Tested and evaluated 9 classification models using Azure ML studio for finding optimal solution for our dataset
- Performed time series analysis using seasonal ARIMA on historical temperature data of 18 years to predict rise in temperature
- Awarded a grant of \$15,000 Azure credits under Microsoft's 'AI For Earth' initiative
- Published a research paper in the Springer Book series 'Algorithms for Intelligent Systems (AIS)'

Extraction of tabular data from PDF to CSV format *(Python, Flask, Pandas, OpenCV, Tesseract-OCR)*

- Developed a web application for identifying and extracting tabular data present in PDFs and transform it to Excel format
- Deployed object detection model (YOLO) for table detection and Optical Character Recognition (Tesseract - OCR)
- Achieved 99.8% accuracy for extraction of tabular data from text-based PDFs
- Published a research paper in the Springer Book: 'Data Management, Analytics and Innovation'

Operating System Process Scheduler *(C++, Linux OS)*

- Developed a system using Discrete Event Simulation which implements multiple schedulers such as First Come First Serve, Round Robin, Preemptive Scheduler, and Preemptive Priority Scheduler
- Created a Process Control Block (PCB) object to maintain the state and statistics of each process during simulation
- Employed object-oriented design to improve reutilization and modularity of the project