

NIKHIL RAJESH MASAND

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EDUCATION

Master of Science in Information Systems | SUNY Binghamton, Binghamton, NY Aug 2022 – Dec 2023
Coursework: Database Systems, Web Based Info Retrieval, Data Mining, Soft Project Management. (expected)

Bachelor of Engineering in Computer Engineering | Mumbai University, Mumbai, India Jul 2018 – May 2022 *Coursework: Algorithms, Software Engineering, Database Systems, Web Development, Object-oriented programming, Machine Learning. GPA: 8.61/10*

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Swift.

Database Systems: MySQL, MongoDB, SQLite, Oracle, PostGRESQL.

Web Technologies & Frameworks: HTML, CSS, Javascript, Angular, ReactJS, Django, Flask, NodeJS, ExpressJS, PHP.

Libraries & Cloud Frameworks: AWS, Microsoft Azure, Google Cloud, Git, Firebase, Tensorflow, Keras, Scikit-learn.

WORK EXPERIENCE

Data Science Intern Aug 2021 – Sep 2021
Sparks Foundation | Mumbai, India

- Predicted the percentage of marks expected by students based on the number of hours they studied, used supervised ML and achieved an accuracy of 95%.
- Predicted the optimum number of clusters from the given iris dataset and represented the data visually.

Software Engineering Intern May 2020 – Jun 2020
VESIT Renaissance | Mumbai, India

- Led a cross-team initiative to develop a web application using Python, Django, and SQLite creating a one-stop solution to access all publications by the college.
- Performed research by conducting interviews and translating business requirements to technical specifications
- Developed a user-friendly web application which lets users add, delete, and update publication details.

ACADEMIC PROJECTS

Ocean Waste Detection Model using Machine Learning and Artificial Intelligence Mumbai, MH

- Developed and trained Machine Learning model using Python, Tensorflow, Numpy, Tensorboard and Tkinter on 3918 images to classify waste into 6 categories such as plastic, paper, glass, cardboard, metal, trash, achieved an accuracy of 94% for training and 92% for testing.
- Used a CNN (Convolution Neural Network) model that uses images and video streams to help detect marine wastes, their amounts and types.
- Published two Research papers, **First** being titled “CleanSea: The Deep Learning Model for Ocean Waste Detection in International Conference on “Technological Interventions for Sustainability (Chem-Conflux22)” at Motilal Nehru National Institute of Technology, Prayagraj during April 14th-16th 2022.
- **Second** titled “Ocean Waste Detection Model: Sujata Khandaskar, Siddharth, Aditya, Nikhil Masand”

Face Mask Detection with Age Prediction Mumbai, MH

- Developed and trained Machine Learning Model using Python, OpenCV, Tensorflow, Tkinter, Keras, MOBILE NET V2, VideoStream
- Used CNN for image classification, Object detection and Age Prediction, Haar Cascade Algorithm to take face data, feed that face data to recogniser and recognise face data.

Student Registration System using PL/SQL and JDBC Binghamton, NY

- Wrote Packages and stored procedures inside the package to enroll students, fetch their records, modifying their records, and direct entry using procedures for storing logs for different operations such as update, delete
- Connected the Procedures on a remote Harveyv Oracle Remote server using JDBC for a user friendly front end

Keyword Search System and Information Parsing Binghamton, NY

- Led team of 4 to develop a web application using HTML, CSS, JavaScript to search a pdf and extract the keywords into a google form
- Backend was done using Python and Django which contained the complete logic.