

# Om Sanjay Singhan

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## EDUCATION

### New York University, Tandon School of Engineering, NY

Sep 2023 – May 2025

Master of Science: Computer Engineering

Coursework: Machine Learning, Data Structures and Algorithm, Computer Systems Architecture.

### Mukesh Patel School of Technology Management & Engineering; Mumbai University

Sep 2019 – May 2023

Bachelor of Engineering: Computer Engineering | GPA: 3.76/4

Coursework: Software Engineering, Application Development, Deep Learning, Artificial Intelligence, Data Mining, Data Analysis, Web Programming, Unix Programming, Soft Computing, Operating Systems, Cyber Security and Ethical Hacking, Communication Skills, Data Science, Statistics, Project Management, Information Technology, Cloud Computing.

## SKILLS

Operating Systems	: Windows, Linux.
Languages	: Python, DART, C/C++, Java, SQL, MySQL, HTML, CSS, Javascript, JQuery, PHP, C#, Selenium, Bash.
Applications/Frameworks	: Flutter, Power BI, Apache, Docker, AWS, MATLAB, HTTP, Kafka, React, NodeJs, Keras, Excel, SaaS.
Technical Skills	: Full Stack Development, Application Development Database Management, Algorithm Design, Technical Support, Backend Development, Customer Service.

## EXPERIENCE

### Software Developer Intern | Aroris Health, Minnesota

May 2024 – Present

- Fixed 15+ critical bugs on both the frontend and backend, significantly improving the application's stability and user experience.
- Developed and implemented 10+ new features for the web application, enhancing its functionality and user engagement.
- Created a data anonymization script to ensure HIPAA compliance, resulting in a 20% cost savings and improved data security for the company.

### IT Developer | Ufaber Edutech, Mumbai, India

May 2023 – Jun 2023

- Led Agile frontend development for "IELTS Ninja" and "Fluent Life" apps using Flutter, achieving 100K+ downloads on both platforms.
- Optimized development pipelines, reducing time from 3 hours to 1.25 hours, enhancing team efficiency.
- Collaborated across cross-functional teams, integrating "IELTS Ninja" with OpenAI API, resulting in a 14% accuracy increase.

## PROJECTS

### Code Summarizer Using BERT (Python, Java, Django, BERT)

Sep 2022 – May 2023

- Designed a Bidirectional Encoder Representations from Transformers (BERT) model to alleviate developer's struggles in comprehending intricate syntaxes caused by the absence of code comments and descriptions.
- Emphasized on optimizing hyperparameters, resulting in a significant 12% enhancement in accuracy.
- Deployed an extension, empowering developers to effortlessly generate comments and function descriptions, streamlining their coding workflows.

### Credit Risk Analysis (Python, Keras, Scikit)

Jan 2023 – Apr 2023

- Utilized Random Forest Classifier, LSTM, and Support Vector Machine (SVM) for credit risk prediction, yielding an accuracy of 87% (0.87).
- Optimized 10 LSTM hyperparameters using Keras Tuner and performed grid search for SVM parameters.
- Executed a hybrid model, where Machine Learning extracted vital features and Deep Learning facilitated predictions, leading to a notable 8% accuracy boost, achieving 95% accuracy (0.95).

### Image Compression using Autoencoders (Python, OpenCV, TensorFlow)

Oct 2022 – Dec 2022

- Utilized Keras, TensorFlow, NumPy, matplotlib, and OpenCV to implement and evaluate autoencoders for image compression with four lossy compression techniques.
- Analyzed the results and determined that Discrete Wavelet Transform (DWT) achieved the highest accuracy at 88%, affirming the effectiveness of autoencoders for image compression.

## EXTRACURRICULAR ACTIVITIES

- IBM certified Applied AI Professional
- Runner's Up at HACK-N-CODE hackathon, Institution of Engineering and Technology, 2021
- First Place at SemiCode coding competition, Association for Computing Machinery, 2021
- Community Service: Praja Foundation (2023), Serve out smiles (SOS) (2018-2019)
- Merit degree for Professional Guitar from the London School of Music (2016)