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[Siddhant Shah](https://incandescent-gnome-b9470c.netlify.app/)

Education Khoury College of Computer Sciences, Northeastern University Boston, MA *Master’s of Science in Computer Science May 2023*

## NBN Sinhagad School Of Engineering, Pune University Pune, IN

*Bachelor’s of Engineering in Computer Engineering May 2020*

# Technical Skills

Languages: Java, Python, SQL (MySQL), JavaScript, HTML/CSS, Spark

Frameworks: React, Node.js, JUnit, Selenium

Libraries: Pytorch, Pandas, NumPy, Matplotlib, jQuery, React, Bootstrap, OpenCV, Gensim

# Experience

## Software Associate Engineer Dec. 2020 – Aug. 2021

*Globant Pvt Ltd Pune, IN*

* Created an instance of ServiceNow to make a unified platform for the company to streamline work and gather insights from operations across the world, named ’The Global Enhancement Project’.
* The initiative *saved an approximate 250+ man-hours* of effort and enabled the leadership to have a detailed view of live progress and integrated with PowerBI the project enhanced user experience, increasing

viewership by at least 20%.

* Employed practices such as Rapid Deployment, and Scrum-based Agile methodology to create 50+ ServiceNow based dashboards, customized forms.

## Research Intern Sep. 2019 – Feb. 2020

*Visava Labs (Delta Interiors Pvt Ltd) Pune, IN*

* Developed an expert-based system in Java that generates 100+ possible configurations for each input.
* Lead the team’s research in Generative Adversarial Networks (*GANs*) and its application to *3D floor plan generation* at the intersection of Architecture and Technology, adapted it to practical implementation.
* Designed an Android application that accepts various input constraints such as budget, area, etc, and displays a de- tailed list of material required based on the location, 2D, and 3D floor plans.
* Secured the startup’s first round of (80%) funding.

## ML Intern Aug. 2019 - Dec. 2019

*IotIot.in Pune, IN*

* Conducted experiments with Convolutional Neural Networks (CNNs) to create a facial recoginition system that is cost efficient and requires as less as 15 data points of the face.
* Used TensorFlow, Keras, NumPy and other libraries based in Python and interfaced it with the startup’s ShunyaOS on Raspberry Pi, reached accuracy levels of about 91%.

# Recent Projects

Topic Modeling and Extractive Summarization | *NLTK, Scikit-learn, Numpy, Gensim* Dec.2022

* Used Non-negative Matrix Factorization, Truncated Singular Value Decomposition, Latent Dirichlet Allocation for gen- erating top k relevant words and text summaries with rouge scores ∼ 0*.*3.
* Normalized 1000+ text documents using Regex (re), Count Vectorizer, Term Frequency - Inverse Document Frequency (TFIDF) from sklearn library.

Image convolutions | *Python, Numpy, OpenCV, Matplotlib* Jul. 2022

* Developed a framework to apply image operations such as filtering from scratch using NumPy.
* Dynamically detect and remove borders and outliers of the Harris map usually at the edges of images.
* Links to all code snippets can be found on [gists @ github](https://gist.github.com/thesidshah). Part of a blog available on [Medium.com.](https://medium.com/%40siddhant-shah)

Bird Strikes in the 2000s | *R, XML, MySQL, SQLite* Jun. 2022

* Sped up the program execution for reading and transforming data from a file using aggregates and other file reading hacks from about three hours to a few fifteen minutes [Extract].
* A database schema adhering to 3NF, extracted data from text documents and XML files, created a formatted CSV file after transforming it using R packages: tidyR, ggplot, dplyr [Transform].
* Finally, implemented the schema in MySQL and SQLite, uploaded the data using scripts, created recursive queries, stored procedures, and finally fetched as well as displayed the results using graphs [Load].

# Publications

* Shah, *et. al*, An Intuitive Study: Intrusion Detection Systems and Anomalies, How AI can be used as a tool to enable the majority, in 5G era, [IEEE](https://ieeexplore.ieee.org/document/9128786)
* Shah, *et. al*, A Study of Generative Adversarial Networks in 3D Modelling,Dec 2019, Vol6:Issue-12 [IRJET](https://www.irjet.net/archives/V6/i12/IRJET-V6I12121.pdf)

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