

SIDDHANT SHAH

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EDUCATION

Khoury College of Computer Sciences, Northeastern University <i>Master's of Science in Computer Science</i>	Boston, MA May 2023
NBN Sinhgad School Of Engineering, Pune University <i>Bachelor's of Engineering in Computer Engineering</i>	Pune, IN 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 <i>Globant Pvt Ltd</i>	Dec. 2020 – Aug. 2021 Pune, IN
<ul style="list-style-type: none">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 <i>saved an approximate 250+ man-hours</i> 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 <i>Visava Labs (Delta Interiors Pvt Ltd)</i>	Sep. 2019 – Feb. 2020 Pune, IN
<ul style="list-style-type: none">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 <i>3D floor plan generation</i> 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 detailed list of material required based on the location, 2D, and 3D floor plans.Secured the startup's first round of (80%) funding.	
ML Intern <i>IoT.IoT.in</i>	Aug. 2019 - Dec. 2019 Pune, IN
<ul style="list-style-type: none">Conducted experiments with Convolutional Neural Networks (CNNs) to create a facial recognition 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 <i>NLTK, Scikit-learn, Numpy, Gensim</i>	Dec.2022
<ul style="list-style-type: none">Used Non-negative Matrix Factorization, Truncated Singular Value Decomposition, Latent Dirichlet Allocation for generating 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 <i>Python, Numpy, OpenCV, Matplotlib</i>	Jul. 2022
<ul style="list-style-type: none">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. Part of a blog available on Medium.com.	
Bird Strikes in the 2000s <i>R, XML, MySQL, SQLite</i>	Jun. 2022
<ul style="list-style-type: none">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](#)
- Shah, et. al, **A Study of Generative Adversarial Networks in 3D Modelling**, Dec 2019, Vol6:Issue-12 [IRJET](#)