VIDYA GOVIND BHAGNANI

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EDUCATION

New York University, New York, NY   **Sep 2022 - May 2024**
Masters of Science in Computer Engineering   *GPA:* 3.78/4.0
Coursework: Fundamental Algorithms, Database Systems, Machine Learning, Decision Models & Analytics

Vivekanand Education Society Institute of Technology, Mumbai, IN   **Aug 2016 - May 2020**
Bachelor of Engineering in Computer Engineering, minor in Computer Science (CS)   *GPA (CS):* 3.7/4.0
Coursework: Intro to Programming, Data Structures, Operating Systems, Image Processing, Computer Networks

SKILLS

Programming/Scripting Languages:	C++/C, Python, SQL, HTML/CSS, JavaScript, JAVA, Spark, MATLAB
Database Management Systems:	Relational-DBMS (MySQL), NoSQL (Hive, MongoDB)
Tools/Platform:	Jenkins, Docker, Kubernetes, Google Cloud, Linux, Git, JIRA, VS Code,Agile
Frameworks/Libraries:	PySpark, Airflow, BigQuery, scikit-learn, PyTorch, TensorFlow, Numpy, Pandas

EXPERIENCE

2040 Now Ambassador | New York University, US   **April 2023 - May 2023**
- Lead the development of a new branding strategy, including the design of a new logo, color scheme, and visual identity guidelines using **Adobe Illustrator and Photoshop**, resulting in an increase in brand recognition among target audiences.

Senior Engineer | Larsen and Toubro Limited, IN   **Nov 2020 - Jul 2022**
- Developed dashboards and ETL pipelines for Customer Outstanding, Peer Comparison, Cyber Security and, SCCM dashboards using **SQL, SSIS, SSAS and Power BI** increasing customer satisfaction by 148%
- Identified usage analytics for **robotic process automation bots** and BI dashboards to ensure 100% utilization of existing resources and thereby saving procurement cost of 5 additional licenses (robotic process automation).
- Collaborated with cross-functional teams to design and develop an end-to-end data pipeline for processing and analyzing large-scale datasets of over 50 million records using **Hadoop and Spark**, resulting in a 50% reduction in data processing time.
- Leveraged **AWS Cloud Services** to facilitate communication between remote devices and servers utilizing different data communication protocols.

Software Engineer Intern | Air India, IN   **Jan 2019 - May 2019**
- Developed a full-stack **C++ app** to create a single itinerary integrating user's flight, hotel, and car booking details
- Created backend in **CPP14** with frontend in **HTML/CSS** using **XML** data format exchanged over **EDI** protocol
- Reduced backend transactions by **~40%** by merging all itineraries leading to a smoother traveler experience

PROJECTS

Object Character Recognition Web Service - FastAPI | PyTesseract-OCR | Microsoft Azure | Python
- Built a **REST API** using FastAPI web framework with PyTesseract-OCR engine to create a restful OCR web service
- Deployed API on Microsoft Azure with **CI/CD** pipeline and completely functional and integration testing

Text to Image Synthesis using DCGAN - Deep Learning | Python | PyTorch 🔗
- Generated photo-realistic images from given textual data using Deep Convolutional Generative Adversarial Net

Detection of Weapons In Public Places - Deep Learning | Tensorflow | OpenCV | Python 🔗
- Trained model on a custom dataset created by labeling 1200+ images of 5 different guns
- Achieved **~81%** mean accuracy by implementing **Faster RCNN Inception** to detect and stop terrorist attacks

RESEARCH AND PUBLICATIONS

Vidya Bhagnani, et. al "**Drishti Gyan - Proposed Design on Gaze based Content Evaluation,**" ICAST- 2020
- Developed a model that uses gaze tracking and emotion detection of the reader to understand how appealing the writing of the article is. Performed transfer learning for facial expressions and emotion recognition. Utilized Heatmap Simpleheat.js, TensorFlow model – Inception V3, Webgazer.js