Adit Shah

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EDUCATION

Concordia Unviersity — Quebec, Canada
Masters of Engineering - Electrical and Computer Engineering — *Aug 2021 - May 2023(Expected)*
Courses: *Software Engineering, Neural networks, Computer Architecture and Design, Artificial intelligence, Digital Logic Design*

Nirma University — Ahmedabad , India
Bachelor of Technology - Electronics and Communications Technology — *July 2015 - June 2019*
Courses: *Analog Communication and Digital communication, Signals Processing, Integrated Circuits, Fiber Optics, Analysis Of Algorithms, Object Oriented Programming, Artificial Intelligence, Networking*
Minors In Marketing: *Brand and Advertisement Management, Strategic analysis, Global Business Management, Consumer behaviour*

EXPERIENCE

Robert BOSCH Engineering and Business Solutions — Bangalore, India
Associate Software Engineer (AI) (RBEI/TSG) — *July 2019 - Sep 2021*
- Design flow for testing the vulnerability of the existing Machine Learning and Deep learning system, including flaws such as Model Stealing, Deployed and patented method to protect AI system incorporating Convolution Neural Network (CNN), LSTMs and traditional ML techniques from vulnerabilities. The work have opened new business avenue for Bosch where they provide protection as a services for ML and AI related system.
- Optimizing the Deep Learning solution and researching on the various techniques like Pruning, Quantization, and Distillation which added robustness to the model against the Model Vulnerability

Robert BOSCH Engineering and Business Solutions — Bangalore, India
Research Intern (AI) (RBEI/TSG) — *July 2019 - Sep 2021*
- Developing a Deep Learning solution for the smart city with an API that will be integrated to the mass surveillance platform for detecting the License Plate number.
- Use different kind of optimization for using the solution across the platforms like on cloud, embedded devices and on mobile devices.

Florida Atlantic University — Boca Raton, USA
Research Intern — *May 2018 - July 2018*
- Engineered Computer Aided Diagnostics project for detection of Pneumonia disease using Computer Vision techniques
- Trained a Neural Network with a data set of about 5600 Chest X-ray Images from Kaggle to achieve an accuracy of 95.5 percent with the system

PROJECTS

- **IOT Smart Switch Prototyping** | *(Fully Funded Project by Collage)*
  - Devised algorithm to implement an IOT Smart Switch with C++ and Arduino
  - With fully supported by the voice command over Google Home and Alexa.

- **CNC Plotter for PCB** | *(Fully Funded Project by Collage)*
  - Designed and fabricated a prototype for getting a means to make in-house PCB printing possible.
  - Focused on being cost effective, effectively reducing the cost by about 40 percent

SKILLS SUMMARY

- Languages   Python, SQL, JAVA
- Frameworks   TensorFlow, Keras, Flask
- Tools   Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite
- Platforms   Linux, Web, Windows, Arduino, Raspberry, MATLAB
- Soft Skills   Leadership, Event Management, Writing, Public Speaking, Time Management

PUBLICATIONS

- **Patents** | *(Artificial Intelligence and Security)*
  - Filled 4 Patents with Robert Bosch

CERTIFICATIONS

- **Credited Courses or Non Credited Courses**
  - Python 101 for Data Science, Issued by IBM
  - Machine Learning with Python, Issued by IBM
  - Electronic Devices,Issued by NPTEL (Ranked in top 5 percent) of total class