



Amit Tiwari

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<https://amittiwari.dev/>

<https://github.com/smilyamit>

M. Sc Student at Ernst Abbe Hochschule Jena

Technical Skills

Programming Stack: Python, C++

Microcontroller and Microcomputer: Arduino, Raspberry Pi 3

ML Framework & Libraries: TensorFlow (1.x, 2.x), Flask, NumPy, SciPy, Pandas, Scikit-Learn, Matplotlib, D3JS, Plotly, Seaborn

SQL & NoSQL DBMS: MySQL, MongoDB

Cloud Service & Analytics Tool: Aws, Excel, Tableau

Education

Ernst Abbe Hochschule Jena/ M.Sc. 2018 - Present, Jena, Germany
Specialized in Scientific Instrumentation

Major Course: Electronic hardware system, Sensor and Electronics

Visvesvaraya Technological University/ B.E 2015, Bangalore, India
Specialized in Mechanical Engineering

Major Course: Automotive & Control Engineering

Internship

Company: Koro Handles GmbH, Germany | Jan 2020 - July 2020|

Position: Machine Learning Intern in Web Development

Worked with different neural networks to filter best algorithm.

Build Machine Learning based chatbot model for assistance.

Performed task like frontend development for company website.

Experience

Company: Unigaz Tech, Qatar | July 2016 -Sep 2018|

Position: Jr. Project Engineer

Installation of the level sensor, bundle wall sensor on site.

Troubleshooting issues with Optical Sensor & software system.

Company: Comilla WLL, Qatar |June 2015 -June 2016|

Position: Site Engineer

My overall job was to test, calibrate & install detectors & alarms.
creating test procedures, analyzing & interpreting the report

<hr/> Projects	<hr/> <p>Developed & deployed Machine Learning based customer support Chatbot model using Rasa NLU framework 01/03/2020 – 30/06/2020, Koro Handles GmbH, Berlin</p> <p>For real time automatic conversation with suppliers we have built a robust interaction model. Primary aim was to control the huge traffic of supplier queries.</p> <p>Developed Object detection algorithm using Yolo-V3 advanced CNN architecture 15/05/2019, Ernst Abbe Hochschule, Jena</p> <p>Practical use case of State-of-the-Art object detection algorithm was implemented. It was based on the paper published by Alexey & Chien.</p> <p>Created an AI Virtual Assistant “Bunny” with Python and Raspberry pi can call up numerous practical assistance functions like search engine 05/11/2019 Ernst Abbe Hochschule, Jena</p> <p>We had built an AI assistant similar to Siri’s in iPhone. It can perform the search engine task, play music on YouTube, Spotify.</p>
<hr/> Training	<hr/> <p>Machine Learning & Deep Learning by EAH Coursera Model Robustness testing: By K-fold validation, Confusion Matrix Dimensionality Reduction Technique: PCA, LDA & Kernel PCA</p> <p>CNN Arch.: Alex Net, VGG-16, Inception-V1/V3, ResNet-50 Object Detection Arch: Faster RCNN, SSD, YoloV3</p>
<hr/> Awards	<hr/> <p>Awarded as Creative Mind in Naval fuel system from Unigaz -Qatar in 2017</p>
<hr/> Languages	<hr/> <p>Hindi, English- Fluent, German- B1</p>

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Jena
08/03/2021