

# Avinash Tiwari

## IoT - Team Member (Data Analyst)

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Motivated data analyst with 3 years of experience. Passionate about building models that fix problems. Relevant skills include machine learning, deep learning, problem solving, programming, and logical thinking.

**Basic Skills:** Numpy, Matplotlib, Sci-kit Learn, Python, OpenCV, Jupyter Notebook, TensorFlow, Anaconda, SCIPy, Pandas, Seaborn, SQL, C++,Pytorch Modin, Raspberry Pi, Streamlit, SpaCy, NLTK.

**Platforms:** IBM Watson Studio, Tableau, Alexa Skill Development, Google Actions Console, SQL Server, Pycharm, Visual Studio Code, Spyder, Linux, Google Colab, GitHub.

## Experience and Projects

### IoT - Team Member (Data Analyst): July 2018- Present

Kalyani Technologies Limited, Pune

- Developed knuckle part variant detection application using Deep Learning and OpenCV.
- Developed Android Mobile application for real-time production KPI.
- Successfully assessed the correlation of various parameters of the machine based on historical data.
- Developed regression and anomaly detection model to forecast the parameters as part of the predictive maintenance project.
- Developed QlikView dashboards for Finance
- Energy consumption Analysis using Tableau and Python (Exploratory Data Analysis).
- Developed utility programs for data gathering from multiple sources using Python (for data analysis preparation).

### Deep Learning Intern: January 2018- July 2018

Techno Samarthyam, Ahmedabad

- Facial Recognition using deep learning.
- OCR pipelining for text detection on receipt documents.
- Exploration of various Neural Network Models for the object detection.

## Projects:

### Personal Projects

#### Data Analyst Nanodegree

- AB Testing model using Python and Statistical Techniques.
- Data wrangling and Analysis using Python and SQL.
- Chat analysis using python and Data Visualization. (For understanding what is the most discussed topics, most active time of users etc.)

#### Natural Language Processing Nanodegree

- PoS tagging including table lookups and n-grams using Python
- Detecting deceptive review using NLP.
- NER (Named Entity Recognition) using NLP.
- Speech recognition by building end-to-end ASR by DNN.
- Machine Translation from English to French by building a DNN.

## Education:

2015-2018  
MCA, D. Y. Patil Institute of MCA, Pune  
| CGPA: 8.56

2012-2015  
BCA, SEMCOM, Anand,Gujarat  
| CGPA: 8.46

## Certifications

- [Deep Learning Specialization](#)
- [IBM Data Science Professional](#)
- [Fundamentals of Deep Learning for Computer vision \(NVIDIA\)](#)
- [Data Scientist with Python-Datacamp](#)
- [Data Analyst Nanodegree by Udacity](#)
- [NLP Nanodegree by Udacity](#)

## Achievements:

- Successful Deployment of the Alexa Skill Development application for Alexa.
- Scholarship for Quantum Computing from Qubit by Qubit.
- Quantum Machine Learning (QML) Scholarship by QWorld.
- Scholarship for Data Analysis Nanodegree from Bertelsmann (Udacity).

### Other Projects

- Object classification and detection for traffic signs classification using python and Deep Learning.
- TV script Generation Using NLP.
- Sentiment Analysis Using NLP.
- Advance Lane Line Detection using OpenCV and Python.
- Facial Key point Detection using DLib and Python.
- Automatic Image captioning using PyTorch and DL.
- Document Redaction Using NLP.
- Text Generation using Seq to Seq Model.
- Contextual Chatbot Using Deep Learning (Pytorch)