

# Vinayak Nayak

AI Developer with functional knowledge of Computer Vision, NLP & Machine Learning. [Technical blog author](#) on Medium. Involved in providing automation solutions in fashion and manufacturing sectors. Seeking opportunities to work in the Data Science/ AI/ ML realm.



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Mumbai, Maharashtra, India



## WORK EXPERIENCE

### AI Developer

Okkular

03/2020 – Present Mumbai, India  
Responsibilities/Tasks:

- Developed classifiers to facilitate tagging product images
- Trained NER models to perform keyword extraction for tagging product descriptions
- Conceptualised and implemented novel solutions for similar/alike product recommendation

### Data Science Intern

International School of Engineering (INSOFE)

12/2019 – 03/2020 Mumbai, India  
Project:

- Learnt the merge architecture to use LSTMs and CNNs in conjunction for single image as input to sequence of words as output prediction
- Trained an Image Captioning model from scratch in keras
- Deployed the model using Flask micro-framework

Contact: [Shreyasi Kalra](#)

### Intern

Doshaheen Solutions Private Ltd.

11/2018 – 01/2019 Pune, India  
Responsibilities/Tasks:

- Annotated Images of Digital Electric Meters for their readings & units.
- Scrutinised image labels & rectified incorrect annotations
- Augmented images using keras ImageDataGenerator for increasing dataset size for improving the classifier performance

### Graduate Engineer Trainee

Alfa Laval India Private Ltd.

08/2017 – 08/2018 Pune, India  
Responsibilities/Tasks:

- Handled customer enquiries & quotations for Marine Engineering Dept.
- Bridged the link between customer & internal divisions of Sales, Purchasing & Technical Departments
- Ideated & implemented a project using VBA to trace the lifecycle of an RFQ (Request for quote) to track the response time of quotations

Contact: [Amit Desai](#)

## EDUCATION

### PGP in Data Science

International School of Engineering (INSOFE)

06/2019 – 11/2019 80% Agg., Mumbai, India

### Bachelor of Technology in Mechanical Engineering

Veermata Jijabai Technological Institute

06/2013 – 06/2017 9.1 CGPA, Mumbai, India

## SKILLS/ PLATFORMS/ LANGUAGES

Machine Learning    Deep Learning    Computer Vision  
Natural Language Processing    Python    Pytorch  
Fastai    Keras    Flask    Streamlit    MS Office  
VBA    HTML    CSS

## HACKATHONS AND PROJECTS

### Time Series Forecasting of Indian Stocks

10/2020 - Present

Project:

- Extracted historical data of Indian Stocks with [nsepy API](#)
- Built an LSTM model in PyTorch for prediction of future stock prices.
- Deployed the model using Streamlit for 1655 stock tickers

### Stock alpha signal prediction @ INSOFE

11/2019 – 11/2019

Project:

- Estimated alpha signals for NYSE stocks using a classifier
- Used LSTM to extract sentiment scores from tweets for tickers
- Coupled sentiment score with other provided stock predictors to fit an ML model (MLP, Random Forest, XGBoost) to predict alpha signal

### PVD Simulation @ BARC

05/2016 – 04/2017

Project:

- Simulated a PVD system and estimated rate of deposition of metal vapours in an isolated low-pressure chamber
- Utilised the Monte Carlo method for simulation and implemented a C++ script to perform the simulation

## ACHIEVEMENTS

### Bhaskaracharya Scholarship @ INSOFE

10/2019 – Present

Awarded INR 1,50,000/- for securing first place in Mid term hackathon and final Project Hackathon organized by INSOFE

### Diamond Jubilee Merit Scholarship @ ACC

06/2014 – 06/2017

Awarded INR 20,000/- per year by the Associated Cement Company for excellent academic performance of BTech.

### Ranked 4th @ VJTI

06/2013 – 06/2017

Ranked 4th amongst a batch of 70 people in BTech Mechanical Engineering Batch of 2013

## LANGUAGES

### English

Full professional proficiency

### Marathi

Native/Bilingual proficiency

### Hindi

Native/Bilingual proficiency