# Vinayak Nayak

Al 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**

# Al Developer

Okkular 🔕

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

- 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

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

Responsibilities/Tasks:

Pune, India

- 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

India

9.1 CGPA, Mumbai,

## SKILLS/ PLATFORMS/ LANGUAGES

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

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
- Deployed the model using Streamlit for 1655 stock tickers

Stock alpha signal prediction @ INSOFE 11/2019 - 11/2019 Project:

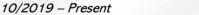
- Estimated alpha signals for NYSE stocks using a classifier
- Used LSTM to extract sentiment scores from tweets for
- Coupled sentiment score with other provided stock predictors to fit an ML model (MLP, Random Forest, XGBoost) to predict alpha signal

PVD Simulation @ BARC Ø 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 🙋



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 Ø



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