

Vinayak Vinod Nayak

Aspiring Data Scientist

AI Developer Intern at Okkular actively seeking fulltime opportunities in the field of Data Science and Deep Learning. Looking to skillfully apply my conceptual understanding to deliver solutions in the field of Data Science and Data Analytics using Machine Learning techniques and consequently foster personal and organizational growth.

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github.com/ElisonSherton 🐙

EDUCATION

PGP In Data Science

International School of Engineering (INSOFE)

06/2019 – Present

Mumbai, India

Courses

- CSE 7402C: Statistics & Probability in Decision Modelling
- CSE 7305C: Methods & Algorithms in Machine Learning
- CSE 7124C: Foundations of Text Mining & Search
- CSE 7321C: Artificial Intelligence & Decision Sciences

Bachelor of Technology in Mechanical Engineering

Veermata Jijabai Technological Institute

06/2013 – 06/2017

9.1 CGPA, Mumbai, India

Thesis/ Internship

- Simulated a Physical Vapor Deposition (PVD) system in C++ for a binary gaseous mixture as my Final Year Project in partial completion of Bachelors Degree under the Bhabha Atomic Research Center.
- Brainstormed and presented an optimal cost-effective solution to automate packing mechanism of Beedis subject to constraints on surface area and manufacturing process at IIT-Bombay as deliverables of a research internship.
- Finished 4th in a class of 70 students.

WORK EXPERIENCE

AI Developer Intern

Okkular

03/2020 – Present

Mumbai, India

Responsibilities

- Create Tag-Gen Models for women's clothing with CNNs in fastai.

Data Science Intern

International School Of Engineering (INSOFE) 📍

12/2019 – Present

Mumbai, India

Project

- Implemented merge model in keras using LSTM and CNN to generate sequence of output words for an input image.
- Working to build a graphical UI for the trained model above. Also, working on hosting the UI online for making predictions.

Intern

Doshaheen Solutions Private Limited

11/2018 – 01/2019

Pune, India

Responsibilities/Tasks

- Preprocessed images to extract Serial Number and Readings from images of Digital Electric Meters. Used CVAT to annotate different elements in an image with respective tags (S No., LCD, LED etc.)
- Augmented Images using OpenCV and keras in python in order to train a deep CNN model for object detection and classification.

SKILLS/PLATFORMS/LANGUAGES

Machine Learning

VBA

MS-Office

Python

R

Deep Learning

Tableau

fastai

HACKATHONS AND PROJECTS

Age Detection of Indian Actors @ Analytics Vidhya (02/2020 – Present) 📍

- Implemented a CNN learner in fastai to classify images of actors belonging to either of three categories - Young, Middle-aged, Old.
- Used Transfer Learning with ResNet50 base architecture and fine-tuned the model with suitable learning rate to be ranked in the top 10%.

Stock ticker alpha prediction @ INSOFE (11/2019 – 11/2019)

- Analyzed alpha signals for stocks in NYSE. Built a classifier to predict the alpha signal in partial completion of PGP course as part of final project hackathon,
- ML Models applied: Neural Network, Adaboost, Gradient boosted trees, XGB.
- Best Estimator: Neural Network - MLP with 1 hidden layer, text embedding layer for analyzing sentiment through tweets, categorical embedding layer to represent numerous stock tickers in a small vector space.

Housing prices prediction @ INSOFE (09/2019 – 09/2019)

- Engineered a Regression model to predict flat resale prices in Singapore for partial completion of PGP course as part of Mid Term Hackathon.
- ML Models built: Random Forest, Decision Trees, XGBoost, Stacking. Best Estimator: Stacking Regressor.

CERTIFICATIONS

Applied Machine Learning in Python - U Michigan @ Coursera (02/2019 – Present) 📍

Grade Achieved 99.2%

Mathematics For Machine Learning - Imperial College London @ Coursera (08/2018 – Present) 📍

Grade achieved 98.5%

ACHIEVEMENTS

Bhaskaracharya Scholarship (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 (06/2014 – 06/2017)

Awarded INR 20,000/- per year by the Associated Cement Company for excellent academic performance across four years of BTEch