

# ADITYA DINESH OKE

## Aspiring Machine Learning Engineer

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## EDUCATION

### Bachelor of Technology Computer Science and Engineering

#### Vellore Institute of Technology

June 2018 – Ongoing    Vellore

- Current CGPA 9.30

### Grade 12th

#### New Horizon Pre University

2018    Bangalore

- Complete my Grade 12th equivalent from Karnataka Board of Education.
- Secured 94 %. Scored 100/100 in Mathematics.

### Grade 10th

#### JSS Public School

2016    Bangalore

- Completed My 10th Grade from CBSE Board.
- Secured perfect 10 CGPA

## PROJECTS

### Deep Learning and Computer Vision

#### Team VAUV

Month 2019 – Ongoing    Vellore

- VIT's only Autonomous Underwater Vehicle Team.
- Working with complete Data science life cycle, data extraction, data cleaning, building models, validation, inference and real time deployment.
- Working on underwater detection algorithms.
- Working with State of the Art Deep Learning models and deploying on Jetson Nano.

### Neural Encryption Networks

- Robust and Fast Text Encryption. Tested for real time data.
- Used Multiple Autoencoders Parallely to give a fast encryption.
- View it here <https://github.com/oke-aditya/Neurex>

### Car Driver Monitoring System

- Monitoring Activity of car driver using Deep Learning.
- Used Tensorflow lite and deployed on Raspberry Pi; an edge IoT device,
- Used quantization and weight optimization for faster performance.
- View it here [https://github.com/oke-aditya/Deep\\_Drive](https://github.com/oke-aditya/Deep_Drive)

### PyTorch CNN Trainer

- A CNN training Python Package for PyTorch.
- Released on PyPi. <https://pypi.org/project/pytorch-cnn-trainer>
- Received shoutout on Twitter by MadeWithML.

## MY LIFE PHILOSOPHY

*"I Work hard Till I Succeed."*

## MOST PROUD OF



### Top 3 Finalists JPMC Code for Good

Developed a complete solution in 12hrs for an NGO.



### Winners DBMS Hack

Developing a robust Movie Review and Recommendation System



### 5th Place OS Hackathon

Smart Parking Solution using CV

## STRENGTHS

Hard-working

Eye for detail

Motivator & Leader

Python

Machine Learning

Computer Vision

Statistical Analysis

Deep Learning

## LANGUAGES

English



Hindi



Marathi



## TECHNOLOGIES USED

### Programming Languages

- Python, C++, C, Java, Javascript.

### Machine Learning

- NumPy, Pandas, Matplotlib.
- Scikit-Learn, XGBoost, Open-cv.
- Pytorch, Tensorflow, Keras,

### DevOps and Cloud

- Git, GitHub, Gitlab, Docker, Kubernetes.
- GCP, AWS.

### Web Development

- HTML, CSS, Bootstrap, flask.

## PROJECTS

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### Simple Digit Recognition Webapp

- Trained a simple handwritten digit recognition CNN.
- Used ONNX format for model deployment.
- Deployed using Flask over Heroku.
- Have a look here <https://digit-detect.herokuapp.com>
- Source code [https://github.com/oke-aditya/digit\\_recognizer](https://github.com/oke-aditya/digit_recognizer)

### PyTorch Faster RCNN Object Detector

- Easily to train Faster RCNN Object detection using PyTorch.
- Trained for safety of Construction workers as helmet detector and Mask Detector.
- Source code [https://github.com/oke-aditya/pytorch\\_faster\\_rcnn](https://github.com/oke-aditya/pytorch_faster_rcnn)

### PyTorch Image Similarity Search System

- Developed an Unsupervised Learning based Image Similarity Search and Retrieval System using Convolutional Auto-encoders.
- Retrieves similar images, based on query image.
- Also, it can retrieve images with similar features from query image.
- View it here [https://github.com/oke-aditya/image\\_similarity](https://github.com/oke-aditya/image_similarity)

### Mantisshrimp Object Detection Framework

- An open source Object Detection Framework focused on Deployment and Application. It is built on top of PyTorch, PyTorch Lightning and Fastai.
- Integrating new State of the Art models to the project.
- Deploying Package using Docker, MLOps management. Created streamlit demo to showcase the framework.
- This project has been conceived well by MadeWithML Summer Incubator. Top 3 projects. One of the Most starred and liked. <https://madewithml.com/collections/7828/ds-incubator-summer-2020>.
- Source code <https://github.com/airctic/mantisshrimp>

## CO-EXTRA CURRICULAR

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### Blogging

- I write blogs on Machine Learning under my publication Machine Learning Magazine on Medium.
- Blogs have made to Medium's selected top blogs in Machine Learning domain.
- You can read them here <https://medium.com/machine-learning-magazine>

### Playing Chess

- Internationally Rated Chess Player.
- Current rating of 1378.
- Won multiple awards at state and national level.
- You can have a look here [http://bit.ly/oke\\_chess](http://bit.ly/oke_chess)

## CERTIFICATIONS

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### NPTEL Python Programming

- Certification by NPTEL-IIT Madras.
- 8 Weeks Course involved beginner to intermediate programming in Python.

### Course on Deep Learning

- Certification by OneFourth Labs an IIT Madras Startup.
- 5 Month Course taught basic to advanced Deep Learning done in Pytorch.

### Google Cloud Platform by Coursera

- Completed the following courses
- Google Cloud Platform Fundamentals: Core Infrastructure
- Google Cloud Platform Big Data and Machine Learning Fundamentals.
- Getting Started with Google Kubernetes Engine.
- End-to-End Machine Learning with TensorFlow on GCP.

### Amazon Web Services By Coursera

- Completed the following courses
- AWS Fundamentals: Going Cloud Native
- AWS Fundamentals: Building Serverless Applications.
- Getting Started with AWS Machine Learning

### Course on Data Science

- Certification by OneFourth Labs an IIT Madras Startup.
- 5 Month Course covers statistical analysis using Python.
- Currently undergoing.