

# Avi Lad

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🖱 <http://www.avilad.tech/>

## 📄 Profile

Computer Enthusiast, Programmer, Developer, Problem Solver and Leader. Enthusiastic about Machine Learning and Natural Language Processing and want to build my career in these fields. Currently pursuing Bachelor's degree in Computer Engineering at PDPU, Gujarat. Innovation in my moto. Want to build new things and aid in the ever growing quest of building a smarter and advanced world. Looking forward to carve my way into the Industry and work with industry experts. Served as a tutor to peers for Programming.

## 📁 Experience

### ORSP, PDPU

Web Development Intern

Nov 2019 – Apr 2020

- Integrating Scopus and Web of Science Data into University Website using APIs.
- Designing and coding new pages for the Website.

### Encode – The Computer Science Club of PDPU

Vice President

Jul 2019 – present

- Organizing workshops and Competitions.
- Teaching Students New Technologies and Programming
- Supervising a team of 25 tech-students.

### ShopX

Android Developer

Aug 2018 – Dec 2018 | Ahmedabad, India

- Worked on the initial design and development of the Android app for the e-commerce StartUp

## 📁 Projects

### Violence Detection Using Machine Learning - Funded by ORSP, PDPU (In Progress)

- Find Violent actions in videos
- Integrate with Surveillance System
- Create automated Detection to reduce human monitoring

### Voice Based Smart Home (In Progress)

- Using Alexa and Google Home to control Home Appliances
- Using Raspberry Pi and Relays integration at switch boards connecting using Home-Wifi

### Poem Generator using Stacked LSTM

- Used Stacked-LSTM Model to Train poems of prominent Medieval English Poets
- Generates Poem based on Seed Text relating to the poetic style of Medieval Poets

### Music Streaming over Local Area Network

- Used Python Socket Library
- Stream music over a LAN without connecting to Internet
- It uses a Client-Server model to deliver music

### Database Management System for Incubation centre

- Created Database Management system for Incubation center using SQL and OracleSQL

### Banking System Using C++

- Created a C++ software for banking system for managing bank accounts.
- Added features such as credit/debit, profile section



## Languages - Skills - Tools

Python

Tensorflow

Keras

NLP

Scikit-Learn [sklearn]

OpenCV

Pandas

Numpy

Matplotlib

NetworkX

Deep Learning Studio

Android Studio

C++

Java

C

Data Structures and Algorithms

JavaScript

Node.JS

Flask

Bootstrap

PHP

HTML

CSS

SQL

Firebase

Linux

Git

Social Network Analysis



## Education

### Pandit Deendayal Petroleum University

Bachelor of Technology(B.Tech.) in Computer Engineering

2017 – present | Gandhinagar, India

CGPA : 9.58/10

### Vallabh Ashram [CBSE]

12th Grade [Physics, Chemistry, Maths, Computer Science, English]

2017 | Valsad, India

Percentage : 92.8%



## Courses - Certificates - Workshops

Machine Learning by Stanford University by Andrew Ng – Coursera (In Progress)

Natural Language Processing in TensorFlow - Coursera

Intro to TensorFlow for Deep Learning - Udacity

Android Basics - Udacity

Social Networks – NPTEL (IIT-Madras)(Gold Medal)

Programming, data structures and algorithms using Python – NPTEL (IIT-Madras)(Gold Medal)

SQL – Statement of Accomplishment by Stanford University

Alexa Workshop

Python Workshop



## Volunteer Work

### Umiya Social Trust

Intern

Valsad, India

- Teaching Rural Students Basics of Computer.
- Volunteering for Events Organized by the NGO.