



Vijay S. Deshpande
Computer Science and Engineering
IIIT Vadodra
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M.Tech
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EDUCATION

Degree	Institute	Year	CPI/Aggregate
M.Tech.	Indian Institute of Information Technology Vadodra	2017-2019	7.4(pursuing)
B.Engg.	Amravati University, Maharashtra	2010-2014	7.9
Intermediate/+2	Narayana Junior College	2008-2010	87.30%
High School	St Aloysius Convent School	2007-2008	80.30%

SKILLS

Area(s) of Interest	Machine Learning, Computer Vision, Mobile Computing .
Programming Language(s)	C, Python, Java.
Tools and Technologies	GIT, Eclipse, Android Studio, Jupyter, R Studio, Spyder.
Open Source	Sklearn, NLTK, Tensorflow.

WORK EXPERIENCE: 2 YEARS

Perk.com Inc **Duration : Oct'14 - Aug'16**
Designation: Software Engineer: Android **Location: Bengaluru**

- Was responsible for **end to end delivery** of android apps.
- Worked on Android sdk, **Android NDK**, JNI, JSON, Webview.
- **Design Patterns Used** : Factory, MVC, Singleton, Adapter .
- Good experience with **Ad sdk's** and **Material Design**.

PROJECTS

Medical Image Registration using Deep learning **Duration : Ongoing**
Guide : Prof Jignesh Bhatt

- Currently working on **Multimodal and Deformable Medical Image Registration** .
- Experimenting with state of the art techniques which were solved using various deep learning techniques.
- Architectures involved are **CNN, Autoencoder, Adversarial Networks, Spatial Transformer Network**.
- Using **pytorch, numpy, pandas, seaborn**.

Improving prediction score using Machine learning. **Duration : Dec'17**

- It was a part of **Hackerearth Machine learning challenge**.
- Performed data preprocessing, **data wrangling**, visualization, normalizing and inferring from distribution of data.
- Used **Principle Component Analysis** for dimensionality reduction. Outlier detection using clustering, **cross validation approach**, feature selection, scaling.
- Libraries used **sklearn, seaborn, numpy, pandas**.
- **Random forest** approach was giving better performance compared to other models with accuracy of **89.90 score**.

Statistical inference of the given data. **Duration : Sept'17 - Nov'17**
Guide : Dr Bhargab Chattopadhyaya

- Data visualization using Histogram, boxplot , scatterplot, timeseriesplot.
- Parameter estimation using **method of Maximum Likelihood**, construction of confidence intervals.
- **Hypothesis testing**, Z tests for means and proportions, chi-square tests.
- Estimation of linear regression by method of **least square**.

INTERNSHIP AND STARTUP EXPERIENCE

Mojro Technologies

Designation: Software Development Engineer

Duration : Sept'16 - Nov'16

Location: Bengaluru

- Developed logistic based app.
- Was responsible for **end to end delivery** of Mojro shipper app.
- Worked on Android sdk, JSON, Webview, Google maps api, directions api, OAuth sdk.
- **Design Patterns Used** : Factory, MVC, Singleton, Adapter.

Roder

Designation: Software Development Engineer Intern

Duration : June'14 - Aug'14

Location: Gurugram

- Developed company's first (Version 1.0) android app. Awarded the '**Best android intern**'.
- Developed a geo-mapping interface to visualize routes using Google Maps and Place API.
- Used **Geocoding** and **Reverse Geocoding** techniques to optimize services.
- Good experience with **Ad sdk's** and **Material Design**.

Persistent Systems

Designation: BE Project Intern

Duration : Oct'13 - Mar'14

Location: Nagpur

- Designed an **android based application** to store and manage the call charges of a user.
- Calculated the exact call charges and generated **reports of the overhead** user pays for services.
- **Designed** the **database** framework for the storage of data and implemented it using **SQLite**.
- Appreciated for my performance by Mr. P Nagarkar, System Manager, Persistent Systems.

AWARDS AND ACHIEVEMENTS

- Completed **Deep learning and Neural Networks** certification from **Deeplearning.ai**.
- Selected as a student participation for **Summer school on Computer Vision and Advance Machine learning** at **IIIT Hyderabad**.
- Awarded **certificate of merit** in **Maharashtra Talent Search Examination**
- Secured a branch change from IT to Computer Sc. and Engg based on **excellent performance in First year**.

POSITION(S) OF RESPONSIBILITY

Android Mentor

Duration : Oct'17 - Current

- Mentoring **android club members** of IIIT Vadodara.
- Formulating the proposal for Android Club with appropriate budget.

Teaching Assistant

Duration : Aug'17 - Current

- Teaching Assistant of **Computer Networks , Data structure and Theory of Computation** Lab at IIIT Vadodara.
- Formulating the topics to be conducted during lab session and evaluation of students.

Team Leader

Duration : Sept'12 - Mar'13

- Team leader and front end developer for the project '**Security system for confidential data**'
- The project was part of **IBM's The Great Mind challenge** competition.
- Was responsible for successful submission of project before deadline.
- Managed and led team for semi-finals at **Mumbai**.

Core committee Member

Duration : Jan'14 - Feb'14

- Responsible for successful execution of 6 events having a footfall of 1000 students.
- Worked as an interface between Dean and individual Event co-coordinators.

INTERESTS AND HOBBIES

- Reading books, Surfing internet, Playing Table tennis.