

# Pranav Belgaonkar

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## EDUCATION

Bachelor's in Technology - Electronics with Honours in **Machine Learning and Artificial Intelligence** ( 8.82 - CGPA )

June 2018 - June 2022

Vishwakarma Institute of Technology, Pune

## SKILLS

- **Programming Languages:** Python (Numpy, Pandas, Seaborn), SQL, R, C++, C
- **Data Science:** Statistics, Web Scraping, MS-Excel, Databases( MySQL), Data Science Pipeline (Exploratory data analysis, Data Visualisation), Business Intelligence/BI (Tableau, Power BI)
- **Machine Learning and AI:** Computer Vision, Time Series Forecasting
- **Miscellaneous Skills:** Data Structures and Algorithm, OOP, Finance, Solidworks

## INTERNSHIP EXPERIENCE

**All India Council for Technical Education, Pune**

*Research Intern*

September 2021 - January 2022

- Found suppliers for purchasing multiple 'Above Elbow Myoelectric Prosthetic Arm' for research purposes.
- Wrote extensive documentation containing information regarding the design and implementation of parts in a Prosthetic Arm.
- Designed 2 practical variations of working Prosthetic Arms in SolidWorks.

**Foundation of Smart Manufacturing, Indian Institute of Technology - Delhi**

*Summer Intern*

June 2021 - July 2021

- Training conducted by Indian Institute of Technology - Delhi in all aspects of Industrial Internet of Things and Dashboarding.
- Narrowed down important parameters that are critical for operating a manufacturing machine.
- Developed dashboards to display real-time data most effectively for multiple categories of users using those critical parameters.

## PROJECTS

**Defaulter Detection using Exploratory Data Analysis (EDA)**

- Performed EDA on the dataset containing 16 lakh data points to gain insights that could reduce the chances of default on loans.
- Cleaned the dataset by handling null values through appropriate ways such as removing or imputing data points.
- Identified important features from a dataset containing more than 120 features that could help identify defaulters.

**Mobile Application to detect Diabetic Retinopathy**

- We developed a mobile application that could detect 5 stages of Diabetic Retinopathy.
- Responsible for creating the neural network model using ResNet 50, and trained on a set of 3600 images.

**Data Visualisation and Analytics for Sales Data in Tableau**

- Connected a MYSQL database and performed data cleaning to make sure that the data is uniform.
- Extracted indicators from the data to show a decline in sales by an average of 33%.
- Created dashboards and storyboards that would provide insights into reasons for decreasing sales and potential solutions.

## EXTRA-CURRICULARS

**Head of Payload division - Trident SatLab (College club)**

- Conducted research on novel concepts and sensors that can be utilised as a payload for a small satellite of size 10x10x10cm.
- Successfully researched and documented 2 concepts that can be used in a small satellite.

**Club secretary - Mirage Campus Film Society (College Club)**

- Created a Discord server that has almost 200 members as part of the film appreciation community in college.
- Guided the organising team to arrange activities and improve our reach amongst the target audience.