

# MEDAM MAHESH

## Machine Learning Enthusiast

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## EXPERIENCE

### Data Science Intern

#### Pyramid SoftSol Pvt. Ltd.

📅 May 2018 – July 2018 📍 Hyderabad, India

- Working with team on design, development and integration of real-time video analytic solution for detection of pills
- Researched state-of-the-art Object Detection Models and analyzed them on the basis of their speed and accuracy.
- Applied Transfer Learning on ImageNet pre-trained Single Shot Multibox Detector model built on Inception network
- Tuning of hyperparameters was done using Bayesian Optimization and a mean Average Precision@0.5 of 90.7% was achieved
- Developing a Healthcare AI virtual assistant which can book appointments, take vital readings etc., using RASA.ai

### Web Developer Intern

#### ChemicalShope Pvt. Ltd.

📅 May 2017 – July 2017 📍 Ahmedabad, India

- Leading the team on design and development the 2017 version of the ecommerce platform for the startup
- Revamping the Invoice generation and Pricing mechanism for the platform after the GST change took place
- Implementing custom web-scrappers using Selenium for the efficient cataloging of the platform
- Improving the Customer Relationship Portal by developing the Order Status and Sales Rep. Feedback features

## ACHIEVEMENTS

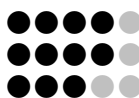
- Qualified to the finals of Accenture Innovation Challenge 2018 from among 16000+ entries across India
- Qualified to the finals of Microsoft code.fun.do SHOWCASE 2017 from among 300+ entries from top-tier colleges.
- Qualified to the top 50 among nearly 1000 startups at Conquest'18 organized by BITS Pilani
- Secured AIR 2928 in JEE Advanced 2015
- Secured AIR 421 in GATE 2019

## SKILLS

Python, Java

Tensorflow, Pytorch, Pandas, Numpy, NLTK

Rasa.ai, Django, Flask, Puppeteer.js, PHP



## EDUCATION / COURSES

### Bachelor of Technology

#### Indian Institute of Technology Kharagpur

📅 June 2015 – May 2020

### Deep Learning Foundations and Applications

### Convolutional Neural Networks

### Machine Learning

## LEADERSHIP ROLES

### Student Co-ordinator

#### Entrepreneurship Cell, IIT Kharagpur

📅 Mar 2015 – Present

- Leading a team of 7 students in the development of year-long websites and admin panels
- Spearheading the project of building Startin, a KGPian student internship portal
- Introducing the Referral Link System, QR based checkin System which increased the footfall of GES'18 by 25%

## PROJECTS

### Real-time Detection of Pills

- Developed Proof-of-Concept model for the detection and tracking of pills using SSD model built on Inception Network
- Creating custom database with the help of the team surpassing corner cases such as changing backgrounds, objects of similar shape were the major challenges

### Predicting Customer Renewal Probability

- Placed in top 3% of the leaderboard in the McKinsey Online Hackathon
- Worked on the feature engineering aspect based on results of Pearson Correlation
- Developed a voted classifier mechanism using Random Forest, AdaBoost, Gradient Boosting, Logistic Regression Classifiers.

### Predicting Probability of Person Turning Anti-Social Based On Social Media Usage

- Placed 31st among 1800+ participants in the ZS Associates Hackathon
- Manually Engineering features to increase accuracy by 10%
- Used Bayesian Search Optimization to quickly tune and find the best set of hyper parameters for Random Forest Classifier.

### Product Review Chrome Extension

- Designed and Developed a Chrome Extension that rates Smartphones based on user reviews
- Used Chrome Storage as caching database and implemented Naive Bayes for Sentiment Analysis

### Railway Chatbot Chhuk-Chhuk (Winning Project)

- Developed a Messenger chatbot to help commuters get information regarding train and tickets quickly

### Healthcare AI Virtual Assistant

- Worked with the team on design and development of Proof-of-Concept for Healthcare AI Virtual Assistant