# Aditya Angadi

Padmavathi Colony , Mahabubnagar ,509001 9652636824 | adityaa.subramanyam@gmail.com

# Objective

To initiate a career in the emerging areas of Artificial Intelligence and Deep learning, where my skill set would be put to optimal use and reap rich benefits to an organisation being an invaluable asset.

## **Experience**

Mahindra Satyam (Currently Tech Mahindra)

Software Engineer (15/04/2010 to 20/12/2012)

Employee Id: 87163

UPSC Civil Services Preparation (2013-2020)

UPSC Civil Services is considered to be one of the toughest exams in the world with success rate less than 0.0006%, which is used to fill up top bureaucratic positions by Indian Government like IAS, IPS, IRS etc.

#### Education

- B.Tech (Computer Science, 2005-09) 66.35 %
- Intermediate (2004, 89.5%)
- SSC (2002,88.83)

## **Skills**

\* Image processing, Objection Detection, Tracking, Algorithms for optimisation using OpenCV. \* Sound understanding of Deep learning for Computer vision using Convolution Neural networks, RNN, ANN, YOLO Etc \* Solid foundation of Machine learning using Supervised/Unsupervised learning Classification, Logistic Regression, Naive bayes, K-Means, SVM, Random forests, Decision Trees etc. \*Extracting analytical insights and visualisation using Numpy, Pandas, Matplotlib.\* Frameworks: Strong knowledge of Tensorflow, Keras. \*Domain Knowledge of Banking, Finance and Securities Market.\* Excellent verbal and written communication skills.

#### **Projects**

Client: MARS (Aug 2010 - Dec 2012)

Description: MARS is a fortune 500 company and a global confectionary major with mutiple warehouses located across the world. Our work majorly revolves around the analytics pertaining to the data of the warehouses regarding the movement of goods globally and generation of the reports which aid in the functioning.

# Roles and Responsibilities:

- \* Operationalised business intelligence solutions and conducted analytics to identify opportunities and strengths to meet business goals .
- \* Presented and communicated findings in an understandable and actionable way tailored to the client's needs .
- \* Created and maintained data visualisations that educated , informed business partners on key metrics and performance measures .
- \* Established long term value added relationships, with assigned business partners to ecucate and develop the analytic capability of the business customers and organisation.

#### DEEP LEARNING PROJECTS

# 1. Pneumonia Detection

We use the concept of transfer learning (training on a huge set, but implementing it on a relatively smaller data), and a pre trained VGG 16 architecture. We work with huge data set of Images classified along with their corresponding labels into of being pneumonic or not. After the pre processing, building model and compiling, the model can differentiate the pneumonic from non pneumonic when fed with new image. Our data comes from Kaggle and we make use of Keras, Tensorflow.

## · 2. Driver Drowsiness Detection

The aim of this project is to detect the drowsiness of the driver while driving . We use OpenCV and Dlib , which is a tool kit for facial detection with its 68 defined landmarks . We use the six land marks around the eyes . We calculate the Euclidean distance between the points located vertically and horizontally around the eyes and check the ratio . If the ratio is below the required threshold over a certain time period , we conclude the driver is sleepy else the driver might be drowsy or alert . We input the live data through camera and get the required output whether drowsy or not .

#### 3. Mask Detection

A critical component to fight with covid is the usage of simple mask. The task at hand is a simple binary classification whether a person wears mask or not. We feed the input data through live camera and as the output the model recognises if we have mask or not. We gather the Dataset with 1000's of images and the associated labels with and without masks. We used Keras, Tensorflow, Mobilenet and OpenCV to build a model. We pre process the data, train the model with appropriate fine tuning of the parameters till we achieve better accuracy.

### Languages

• English, Telugu, Hindi

#### **Achievements & Awards**

• \* Wrote UPSC Civil Services Mains Twice (selection rate of 0.008 %). \*Recognition as an Employee with best communication skills in Mahindra Satyam. \* Cleared NTSE Exam. \* State ranks in other competitive exams by Govt of Telangana. \* Volunteer in the areas of Health and RTI (Right to Information).