

# Mayank Mishra

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## EDUCATION

### University of Petroleum and Energy Studies

Bachelor of Technology in Computer Science

GPA: 7.89/10

Dehradun, India

2020

### Rukmani Birla Modern High School

XII (Central Board of Secondary Education)

Percentage: 92.2%

Jaipur, Rajasthan

2016

## WORK EXPERIENCE

### Celebal Technologies

Associate Data Engineer

Jaipur, India

May, 2019 – July, 2019

- Worked extensively on data analysis using python libraries for a UK based Pharmaceutical company.
- Deployed a Machine Learning model to help the client simulate their sales and profits under various circumstances.

## RESEARCH PROJECTS AND CERTIFICATION

### Allergen Food Recognition Using CNN

Nov, 2020 – Present

- Creating a multi-label image classification model to detect allergy causing food products.
- Classifying food into categories of histamine, lactose, gluten, caffeine, salicylate rich food.

### Hand Tracking and Gesture Recognition System

Nov, 2020 – Present

- Creating a real-time hand tracking system using RNN and mediapipe framework.
- Using the system to recognize gestures from Indian Sign Language.

### Devanagari Script Numerical Digit Recognition System

Nov, 2020 – Dec, 2020

- Built a devanagari (Indic) script numerical digit classifier using ResBlock.
- Achieved an accuracy (99.6%) better than other contemporary works.

### CNN based image classification for smart phone device

Mar, 2020 – May, 2020

- Applied CNN along with Transfer Learning, Batch Normalisation, Dropout, Superconvergence to classify images in smart phone devices into categories of photographs, documents and quotes.
- Trained the classifier on a self-modelled dataset and achieved 95% accuracy.

### Detection of Alphabets of ASL and Translation into Computer Commands

Sep, 2019 – Dec, 2019

- Created an image classification model using CNN to classify alphabets of American Sign Language.
- Used python commands to control computer screen using simple sign and convert letter into voice output.

### Machine Learning Basic Nanodegree, Udacity Certification

Jan, 2018 – Apr, 2018

- Completed a specialization with 3 courses covering supervised and unsupervised Machine Learning algorithms like Linear Regression, Support Vector Machines, k-means clustering etc.
- Implemented python libraries to finish two projects that covered above mentioned concepts of Machine Learning.

## Extra Curricular Activities

### Head Boy

2014 – 2015

Rukmani Birla Modern High School

- Served as the head of the school's prefectorial council and successfully led and managed a number of events.

### National Level CBSE Science Exhibition

2013

Central Board Of Secondary Education, India

- Built an efficient transport system using Maglev technology which was chosen for the National Exhibition at New Delhi.

### Space Settlement Design Contest

2013

NASA Ames Research Center

- Secured 2nd position globally by designing a space settlement to be colonized by humans in the future.

### National Abacus and Mental Arithmetic Competition

2009,2010

Ideal Play Abacus India Private Ltd.

- 1st position at National Abacus competition for two consecutive years.