

# Piyush Singh

Ambitious and self-motivated B.E. graduate from Mumbai University with a keen interest in data analytics and machine learning. Additionally, having knowledge in front-end and back-end. Seeking a rewarding position in a reputed company.

## PG Program

**Imarticus Learning, Delhi – August 2022**

- Currently pursuing post graduate program in data analytics and machine learning
- Learned statistics, machine learning and neural network concepts
- Built several models on various techniques in linear regression, logistics regression, decision trees, SVM, KNN, K-Means, hierarchical clustering, T-SNE, naïve bayes, ARIMA time series, ANN, CNN, RNN, LSTM, etc.

## Experience

**Indian Institute of Technology (IIT), Delhi – Sr. Project Assistant (Tech)**

April 2022 – August 2022

### ICMR Funded Project

- Designed and developed hardware for nerve monitoring probe using EDA tools from an idea to a proof-of-concept prototype for use in surgical operations.
- Assisted PhD scholars and research assistants in their research projects
- Implemented UART, I2C, SPI and other communication protocols in various microcontrollers, sensors and displays

## Projects

**Digit Recognizer Competition – Dec 2022**

- Built a model to predict digits (0-9) based on the input image using convolutional neural network in TensorFlow and Keras.
- Came in top 28% of the Kaggle competition leaderboard with 99.92% accuracy.

**Machine Learning Algorithms – Aug 2022**

- Developed algorithms for gradient descent, linear regression and forward propagation in artificial neural networks from scratch using mathematics and NumPy library.

## Internships

**Knowledge Solutions India, Online – Machine Learning Intern**

6 weeks, December 2021

**Western Railway, Mumbai – In-Plant Trainee**

2 Weeks, December 2019

**Larsen & Toubro Defence, Mumbai – Project Management Intern**

Jun 2019 – July 2019

## Education

**New Horizon Institute of Technology and Management,**

**Mumbai University – B.E. Mechanical Engineering**

May 2017 – August 2021

**Flora Dale School, Delhi, India – Class 12th**

Graduated 2016

**DAV Public School, U.P., India – Class 10th**

Graduated 2014

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## Links

[LinkedIn://piyushsinghofficial](#)

[Github://piyush.singh.office](#)

[Kaggle://piyushsingh333](#)

[Website://piyushsingh.in](#)

## Technical Skills

**Programming Languages:**

C/C++, Python, JavaScript

**Web:**

HTML, CSS, Django, Django-Rest-Framework, Axios, ReactJS

**Database:**

MySQL, ORM

**Tools:**

Git, Postman, NumPy, Pandas, Matplotlib, Seaborn, Sci-kit Learn, TensorFlow, Keras, SciPy, Tableau, Power BI

## Certificates

- **Azure AI Fundamentals – AI900** from Microsoft (April 2022)
- **Python Data Structures** by University of Michigan from Coursera (Aug 2020)
- **AI for everyone** by Deeplearning.ai from Coursera (4 weeks, Aug 2020)
- **Introduction to Big Data** by UC San Diego from Coursera (3 weeks, Sept 2020)
- **Machine Learning: Regression** by University of Washington from Coursera (6 weeks, Sept 2020)
- **Machine Learning with AI using Python** certificate conducted by Certiport (6 weeks, Dec 2021)

## Workshop

Attended 2-day workshop at IIT Bombay on topic “Machine Learning” from 24<sup>th</sup> to 25<sup>th</sup> August 2019.

## Achievement

Won “Bronze Medal” by NSO for National Science Olympiad in December- 2014