

# Shivam Chadha

3<sup>rd</sup> Year, Dual Degree  
BITS Pilani Goa Campus

Contact: +91 7588746656  
Email: shivamchadha.sc@gmail.com

## Education

2019-2024(Exp)

- Msc. Mathematics
- B.E Electronics and Communications Eng.

BITS Pilani, Goa Campus  
CGPA : 7.52

2019

CLASS XII - CBSE  
Jain International School, Nagpur  
Percentage: 93.2%

2017

CLASS X - CBSE  
Delhi Public School, Nagpur  
Percentage: 95.2%

## Coursework

Computer Programming  
Optimization  
Probability and Statistics  
Graphs and Networks  
Discrete Mathematics  
Applied Stochastic Processes  
Applied Statistical Methods

## Skills

LANGUAGES

C/C++, Python, Matlab

LIBRARIES

Numpy, Pandas, Scikit-learn,  
Statsmodels, Tensorflow,  
Matplotlib, Seaborn

TOOLS

Shell Scripting, Git

## Experience

JUNE-JULY 21

**Hertztech Solutions Pvt. Ltd.**

**Intern**

- Used unsupervised machine learning to solve problems in the NVH (Noise Vibration & Hardness) sector.
- Used WaveNet to create a generative model to produce raw audio.
- Processed MIDI files to produce time-series representing the sound wave.

## Projects

**ChaosNet [Ongoing]**

**Deep Learning**

- Introducing Chaos based artificial neural networks.
- Solving Classification tasks with the architecture.

**Education and Neuroscience [Ongoing]**

**Neuroscience, Deep Learning**

- Processed real world EEG-signal data.
- Computed Power Spectrum and Relative Power.
- Performed Statistical Analysis of the said data.

**Covid-19 Cases Predictor**

**Time Series, Data Science**

- Visualized Time-series data for covid-19 cases.
- Improved on baseline Naive Bayes model.
- Used Arimax models for forecasting total cases.

## Teaching Assistant

FEB 22

- PRESENT

**Work Integrated Learning Programs (WILP) - Calculus**

- Took TA-hours.
- Evaluated assessments.
- Took sessions to introduce MATLAB.

## Certifications

JUNE 2020

**Introduction to Data Science in Python - Coursera**

- Data manipulation with pandas library.
- Numpy library for operations on matrices.

JUNE 2020

**Applied Machine Learning in Python - Coursera**

- Scikit-learn library for machine learning.
- Models like Linear Regression, SVMs, Random Forests, etc.