

# Shrut Patel

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## SUMMARY

An aspiring python developer with experience in full stack development and machine learning engineering.

## EDUCATION

### **BITS PILANI**

**BE (HONS.) COMPUTER SCIENCE**

Minor in Finance

Classification 2:1 | May 2019

## SKILLS

**Programming Languages**

Python • Java • SQL • Bash

HTML5/CSS3/JS • C/C++

**Software and Tools**

django • git • GCP • React.js

sklearn • pandas • numpy

d3.js/plotly • HDFS/PySpark

Keras • Tensorflow • LaTeX

**Operating Systems**

Linux • Windows

## LINKS

[Github](#)

[LinkedIn](#)

[Kaggle](#)

[Personal](#)

## CERTIFICATIONS

Machine Learning

Deep Learning Specialization

Hadoop Platform and Application

Framework

## EXPERIENCE

### **IMPERIAL COLLEGE LONDON | RESEARCH ASSISTANT**

July 2019 – Present | London, UK

- Working on a multimodal deep learning project under Prof Lucia Specia using python technologies to collect, clean and process information from different modalities.

### **AMERICAN EXPRESS | RESEARCH INTERN, AI LABS**

July 2018 – Dec 2018 | Bangalore, India

- Created a scalable text analytics platform to enhance customer understanding through descriptive and predictive modelling.
- Managed regular meetings with stakeholders and other business units to design this django-based tool that provides an exhaustive end-to-end solution, from exploratory data analysis to measuring data quality and then running machine learning/deep learning algorithms on enterprise unstructured textual data.
- Devised a methodology to recommend algorithms based on data quality which has immensely saved time while increasing efficiency

### **BITS PILANI | TEACHING ASSISTANT**

July 2017 - May 2019 | Goa, India

- Formulated problem statements that inculcate system design principles, provided documented skeleton code and created test suites for the weekly labs in the courses Object-Oriented Programming, Database Systems, and Computer Networks.
- Engaged in tutoring and evaluating students enrolled in the courses.

### **INFIBEAM | SOFTWARE ENGINEERING INTERN**

May 2017 – July 2017 | Ahmedabad, India

- Developed an application regarding personalized health care services alongside an agile development team.
- Involved in the full-stack development of the project and responsible for collaborating with an android team to configure a common database server.
- Gained experience using the Django Framework, Google Cloud Platform and REST services.

## KEY PROJECTS

### **MINI-ML**

A minimal machine learning library written from scratch in python. Used only the PyData stack including pandas and numpy.

### **PORTIMIZE**

A portfolio optimization tool that utilizes time series forecasting boosted with sequence models. Used django and keras as the back-end.

### **SPAM DETECTOR**

A software to detect spam mails through URL classifications combined with a bayesian approach on the content. Used Python and its libraries such as sklearn.

### **CACHE DESIGN**

Implemented a set-associative way halting cache in verilog with write-back and LRU counter policies.