

# INDRANIL PATIL

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SAN JOSE, CA



## EDUCATION

### Master of Science in Data Science

San Jose State University, San Jose, CA

Anticipated-May 2023

3.47/4 GPA

Relevant Coursework- Database Systems Principles, Linear Algebra, Applied Probability and Statistics, Machine Learning, Web Intelligence.

#### Course Projects -

Malaria Detection Using Blood Smear Images

September 2021- December 2021

- Developed robust classifiers with CNN, VGG-19 & ResNet-50 to identify malaria in red blood cells (RBCs) smear images. Tuned CNN hyperparameters for less computationally expensive model.

### Bachelor of Engineering in Computer Engineering

Savitribai Phule Pune University, Pune, India

August 2015 -January 2020

8.34/10.0 GPA

Relevant Coursework - Data Mining and Warehousing, Data Analytics, Advanced Data Structures, Cloud-Computing, High Performance Computing.

#### Course Projects -

Recapped: Automatic Text Summarizer

August 2018 - June 2019

- Lead team of four to develop text summarizer adopting hybrid approach.
- Modelled data input into processable form using NLTK.
- Implemented extractive algorithms to minimize and optimize parameters to be further utilized to create more human-like summarization.
- Engineered a model employing n-gram techniques to replace words with summarized forms.
- Evaluated summarizer model with BLEU & ROGUE metrics, ensuring human-like summaries.

Crypto-Currency Analysis

August 2017 - December 2017

- Organized data and values of various crypto currencies and cleaned datasets.
- Assembled presentable insights and visualized data using Pandas.
- Produced plots and charts of fundamental changes in currency using Matplotlib.
- Implemented a prediction model by applying both basic & advanced machine learning models.

## TECHNICAL SKILLS

**Programming:** Python, R, Java, C++, C

**Web Development:** PHP, JavaScript, HTML5, CSS, JSON, XML

**Tools:** Excel, SPSS, Git, AWS, Azure, Nginx, Docker (Basics)

**Databases:** Oracle DB, MySQL, PostgreSQL, MongoDB, IBM DB2

## TECHNICAL PROJECTS

NCB Credit Card Fraud Filter and Monitoring

January 2021- March 2021

- Created automated system for New Central Bank to monitor millions of credit card transactions and identified fraudulent, suspicious transactions on daily basis, which generated and delivered reports to authorities for audit.

BE-MCQS Site

October 2020 - December 2020

- Collaborated to design and deploy a temporary website to crowdsource exam material for university online examinations. Launched finished product in a timely manner to facilitate access of material to over 15,000 individuals.
- Development Stack: Python ETL, Flask, Azure B1 VM, Nginx, Cloudflare CDN.

## SOFT SKILLS

- English (Professional), Marathi (Native), Hindi (Native).
- Problem solving ability and Decision Making.
- Able to focus on tasks with attention to detail and accuracy.
- Ability to work in challenging environment and learning from adverse situations.