# Sarthak Singh

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#### EXPERIENCE

• Navia Life Care Gurgaon, India

Machine Learning Engineer

August 2019 - Present

- Created ETL Pipeline for the production data from scratch using PostGreSQL and Django framework and a proper reporting system for various analytics. Also made visualizations using basic HTML, CSS and JS and data ingestion pipeline for Kibana.
- Created **end to end system for gathering and annotating data of doctor's handwritten prescription** in both forms (Online and Offline) achieving 90% accuracy in Offline recognition.
- Using the gathered data, worked on **Online and Offline Handwriting Recognition and Optical Character Recognition** on doctor's handwritten prescriptions using CNN, RNN's and CTC.
- o Deployed personalized recommendation models for doctors based on usage data.
- o Working on Clinical Decision Support System for EHR system using SNOMED CT Database using HealthCare data.
- Created **Data Pipelines**, **Ingestion Pipelines and automated the reporting process and data management** of thousands of doctors and millions of patients.
- Developed APIs for insights and analytics dashboards for doctors.
- o Developed Architecture of various products to ensure scalability and proper reconciliation of data.

Technologies: Python, SQL, Django, Tensorflow, Docker, GCP, AWS, Javascript, MongoDB.

Theory: Data Preprocessing, Statistical Modeling, Deep Learning, Linear Algebra, NLP, Recommendation systems.

#### EDUCATION

• Guru Gobind Singh Indraprastha University B.Tech. Computer Science Engineering (7.3 CGPA) New Delhi, India July. 2015 – June. 2019

#### CERTIFICATIONS

## • Applied AI Course

Fundamentals of Programming Data Science: Exploratory Data Analysis and Data Visualization Foundations of Natural Language Processing and Machine Learning Issued August 2021 Issued October 2021 Issued January 2022

# Datacamp

Python Data Science Toolbox (Part 1) Python Data Science Toolbox (Part 2) Cleaning Data in Python Issued January 2018 Issued January 2018 Issued April 2018

#### Projects

- Face Recognizer: Developed a Face Recognizer with OpenCV library which can detect faces using Eye Detection, create dataset to train itself, recognize faces live with webcam.
- Captcha Solver: Created a Captcha Solver using OpenCV library for image processing and created a CNN for the recognition of captcha letters.

### OTHER PROGRAMMING TOOLS

- Cloud services: AWS(EC2, S3), GCP.
- Deep learning frameworks: Keras, Tensorflow.
- Database: PostgreSQL, MongoDB, ElasticSearch.
- Python: numpy, pandas, sci-kit, django.
- Webserver: Gunicorn, Apache, Docker.