

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.
- Deployed personalized **recommendation models for doctors** based on usage data.
- 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.
- 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

New Delhi, India

B.Tech. Computer Science Engineering (7.3 CGPA)

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

PROJECTS

- ML Pipeline : Fashion MNIST Classification and Its ML Pipeline using Apache Kafka
- Captcha Solver: Created a Captcha Solver using OpenCV library for image processing and created a CNN for the recognition of captcha letters.

ACHIEVEMENTS

- Kaggle Expert
- Qualified ZS Data Science Challenge 2018, Got in top 40 out of 6000 students in ZS Data Science Challenge 2018.

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, Kafka.