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

- **Datacamp**
  Python Data Science Toolbox (Part 1)   *Issued January 2018*
  Python Data Science Toolbox (Part 2)   *Issued January 2018*
  Cleaning Data in Python   *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.