NEIL CHITRE

San Francisco, CA | chitreneil5@gmail.com | +1 (341) 699 6496 | github.com/NeilChitre2311 | https://www.linkedin.com/in/neilchitre

EDUCATION

University of San Francisco **July 2022 - June 2023**

Master of Science in Data Science

Relevant Coursework: Advanced Machine Learning, Python Programming, Distributed Computing using Spark, Data Structures & Algorithms, Relational Databases, Probability and Statistics, A/B Testing, Data Analysis and Visualisation.

Manipal Institute of Technology **July 2014 - June 2018**

Bachelor of Technology in Computers and Communication Engineering

Relevant Coursework: Data Structures & Algorithms, Computer Networks, Database Management Systems, Machine Learning, Object Oriented Programming, Operating Systems.

PROFESSIONAL EXPERIENCE

Boost Sport **Nov 2022 - Present**

Data Science Intern

- Developed a sport agnostic game prediction model using ELO ratings to accurately forecast outcomes and provide insights for various sports leagues including EPL, NBA and NFL.
  Model was able to successfully predict Win/Loss with 73% accuracy over the course of an entire season.
- Currently working on generating sports insights and game narratives using game data.

Philips Healthcare **July 2018 - May 2022**

Software Engineer II

- Developed an end-to-end software solution called ROCC which connects Senior Radiologists at remote locations with on-site rookie Technologists and enables them to perform highly efficient MRI and CT scans.
- Developed a backend Python application using Flask and RabbitMQ to onboard new customers to ROCC.
- Built new APIs using Java Spring which connect the ROCC User Interface with the backend infrastructure.
- Designed and developed the database schema for ROCC on PostgreSQL.
- Since its launch in December 2020, ROCC is deployed in 3 large hospital chains in the United States and has reduced the average time of MRI and CT scans by 30% and the patient recall rate by 23%.

Software Engineer I

- Responsible for developing the front-end web application for ROCC using ReactJS.
- Implemented Video calling feature for ROCC using Twilio API to connect Senior Radiologists to rookie Technologists.

Wai Technologies **May 2017 - August 2017**

Data Science Intern

- Worked with the development team to build a Recommendation System that recommends educational modules to customers.
- Implemented Matrix Factorisation to decompose the sparse User-Item rating matrix and computed the predicted ratings for each User and Item.

ACADEMIC PROJECTS

Scalable and Efficient Product Search Architecture

- Implemented an efficient and scalable product search architecture that can handle a large amount of data and provide accurate results to users.
- Used an Airflow DAG to fetch data daily from an external E-Commerce API, pre-process it, and store in MongoDB database.
- Used TF-IDF in SparkML to create word vectors and calculated cosine similarity to get similar products.

SKILLS

- Programming Languages: Python, SQL, Java, ReactJS, Shell Script, Typescript.
- Databases: MongoDB, MySQL
- Technologies/Frameworks: Apache Spark, Spark MLLib, Apache Airflow, MongoDB, Hadoop, Kafka, Flask, Java Spring, AWS S3, Docker, GraphQL, CloudFoundry, Redis, RabbitMQ, Git, PyTorch, Google Cloud Platform (GCP), Databricks.
- Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Adaboost, Gradient Boosting, Recommender Systems.