

# Paras Narendranath

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## Education

- **University of Southern California, Los Angeles, CA** Aug 2022-Present  
*Masters in Computer Science, Data Science*  
Related coursework: Analysis of Algorithms, Database Systems
- **BMS College of Engineering, Bangalore, India** Aug 2020  
*Bachelor of Engineering, Information Science and Engineering*  
**GPA: 9.6/10**, First class with Distinction  
Related Coursework: Python, Java, Web Development, Operating Systems, Unix, Networking

## Technical Skills

- **Languages:** Python, Java, TypeScript
- **Technologies:** Angular, Flask, FastApi, Node.js, Hadoop, Iceberg, PySpark, Trino, Kafka, SQL, AWS
- **Databases:** PostgreSQL, MySQL, MongoDB, Snowflake

## Professional Experience

**Goldman Sachs | Analyst - Software Developer/Data Engineer** Sep 2020-Jul 2022  
(Python, PostgreSQL, Angular, Git, Java, Kafka, PySpark, Hadoop, Snowflake, Trino)

- Architected a data distribution channel to integrate customers from a third party into the firm's ecosystem, thus bringing in \$10 million monthly revenue via saved customer acquisition costs.
- Modeled and implemented large-scale ETL data pipelines associated with a new vendor that decreased the firm's loan decision-making expense by 1/3<sup>rd</sup>, bringing down costs by ~\$5 million/year.
- Coordinated team's migration from on-prem services to on-cloud, saving expenses by 20%.

**Goldman Sachs | Intern - Full Stack Software Development** Jan 2020-Jul 2020  
(Python/Flask, Angular, PostgreSQL, Git, React, Redis)

- Developed an ETL platform using Angular and Flask to streamline the onboarding of data workflows, resulting in 10x times faster integration. This helped developers modularise their ETLs for ease of use.
- Constructed a data browser dashboard to visualize data residing on HDFS and other data sources; substantially cutting down developers' need to access remote servers manually

**Samsung R&D | Research Intern - Machine Learning** Aug 2019-Dec 2019  
(Python, HTML, CSS, JavaScript)

- Led a team of 3 students and devised a multi-class text classification model leveraging custom-trained language embeddings; co-authored and published in a journal.
- Built a webpage that would internally run our ML model on user input; entities were visually annotated on the UI with an accuracy of ~92%.

## Academic Projects

**Intelligent Traffic Light Control System | Python, Deep Learning | [github]** May 2020

- Created an intelligent traffic control system that reduced vehicular wait time by 60% on traffic modeled off Indian roads; analyzed multiple algorithms to arrive at the best-performing model.
- Conferred "Best Paper" at the International Conference On Computational Intelligence.

**Detection of negation in sentences | Python, NLP | [github]** Jan 2019

- Developed 2 models employing NSlackSSVM and ChainCRFs to detect negation in the clinical text; achieved an 89% f1-score on an annotated evaluation dataset.
- Awarded as "Winners" of the Philips Data Science Hackathon.

## Leadership and Involvement

**Technical Head & Co-founder (ISE Student Club) | BMSCE, India** Jun 2018-Jun 2019

- Organized coding competitions and conducted classes to prepare 400+ students for campus placements; served as a student consultant for the university's academic syllabus discussions.

**Volunteer | Youth Empowerment Foundation, India** Jul 2020-Aug 2020

- Raised funds and donated rations to 50+ daily wage workers and their families during the COVID-19 lockdown in India.

## Awards

- Best Model Presentation at the IBM Hackathon, Indian Institute of Science. Jan 2019
- Winner of the Riskcovry Data Analytics Hackathon, BMSCE Mar 2019