

Saksham Bassi

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40 Newport Parkway Jersey City, NJ

EDUCATION

- **New York University - Courant Institute of Mathematical Sciences** GPA - 3.625/4.0
Master of Science in Computer Science - focus on Machine Learning May 2023

SKILLS

- **Languages:** Python, C++, Node.js, Java, Angular, HTML, CSS, R, Git
- **Databases:** SQL, MySQL, MongoDB, CosmosDB, DynamoDB, PostgreSQL
- **Tools:** HuggingFace, PyTorch, Keras, Tensorflow, Apache Spark, Airflow, Flask, Google Cloud Platform, Matplotlib
- Recommendation Systems, Natural Language Processing, Machine Learning, Computer Vision, Time-series Modeling

EXPERIENCE

- **CILVR Lab, NYU** New York, New York
Research Assistant Sept 2022 - Present
 - NLP research on improving generalization in cross-lingual models with [Duygu Ataman](#) and [Kyunghyun Cho](#).
- **Amazon** Seattle, WA
Software Development Engineer Intern May 2022 - Aug 2022
 - Implemented a new notification service that sends push notification when a payment is failed in Amazon Care.
 - Designed a fast and simplified system design for the service, and wrote unit tests to make it fault-tolerant.
 - Aim to fix 95% failed payments using this service. [*Java, AWS Lambda, DynamoDB*]
- **Glance, InMobi Group** Remote
Data Scientist II Apr 2021 - Aug 2021
 - Built exploration-feed ML infrastructure for millions of daily users to improve recommendations.
 - Integrated Node2Vec model to learn user embeddings and automated execution through Airflow.
 - Improved user engagement by 30% using recommendations from top-k creators. [*Python, PySpark, Airflow*]
- **HSBC** Pune, India
Software Engineer July 2019 - Apr 2021
 - Devised Logging architecture to monitor application and on-premise logs for critical alerting.
 - Saved \$3 Million annually which were spent on proprietary logging software. [*Fluentd, Grafana, GCP, Python*]
 - Created alert policies & automated VM processes using Python APIs for GCP.
 - Spearheaded development of a system to map and send Financial documents to clients plus mailing service.
- **Tata Institute of Fundamental Research** Bangalore, India
Machine Learning Research Jan 2019 - June 2019
 - Performed modeling and factorization of time-series data using statistical features in domains like astronomy, finance, mathematics and commodity prices. [[published paper](#)]
- **Inter-University Center for Astronomy and Astrophysics** Pune, India
Deep Learning Research Feb 2018 - Dec 2018
 - Formalized a method to classify variable star classes in sky surveys using CNN-LSTM models and eliminated the need of pre-processing large time-series datasets. [[published article](#)]
 - Accelerated computational time by a factor of 10 and produced instant results from raw light curves.

PUBLICATIONS

- **A learning algorithm for time-series based on statistical features.** *International Journal of Advances in Engineering Sciences and Applied Mathematics* [[Link](#)]
- **Deep Learning Diagnosis of Skin Lesions.** In *International Conference on Computing, Communication and Networking Technologies* [[Link](#)]

PROJECTS

- **Causal-inference:** Deep models (Residual & Transformers) for high-dimensional simulated causal effect [[code](#)]
- **HuBERT-disfluency:** Working on End-to-end disfluency removal using audio + fine-tuned BERT model
- **Audio Denoiser:** Developed Autoencoder to denoise audio signals and implemented CNN on its spectrograms to qualitatively assess industrial processes. [*Python, Flask, Keras, HTML, CSS*]