

# Saksham Bassi

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## EDUCATION

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- **Courant Institute of Mathematical Sciences, New York University** New York, NY  
*MS in Computer Science; GPA: 3.67/4.0* *Expected graduation May 2023*
  - **Courses:** Fundamental Algorithms, Computer Vision, Operating Systems, Programming Languages
- **Pune Institute of Computer Technology, University of Pune** Pune, India  
*BE in Information Technology; GPA: 8.67/10.0; Top 20% in class* *July 2015 – June 2019*

## EXPERIENCE

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- **Glance, InMobi Group** Bangalore, India  
*Data Scientist II* *Apr 2021 - Aug 2021*
  - **Personalization:** Built user-creator affinity model for millions of daily users to improve recommendations on the video platform Roposo. Represented social media network in embedded space using Node2Vec, and devised a model to learn about positive interactions. Computed favourite creators for each user to enhance the recommendation system and improved user engagement by 30%.
  - **Video Classification:** Thousands of videos uploaded every day belong to different classes. I worked on improving the classifier model using Artificial Neural Networks. Achieved 12% increase in accuracy and better individual class f1-scores than the previous ML model.
- **HSBC** Pune, India  
*Software Engineer* *July 2019 - Apr 2021*
  - **Analytics:** Built architecture to monitor app and on-prem logs for critical alerting using Fluentd, Stackdriver, and Grafana. Saved \$3 Million annually which were previously spent on proprietary software. Set up alert policies & automated VM processes on GCP.
  - **Development:** Built an application to map and send Financial documents to clients. Created mailing service to send documents using Java Spring backend. Removed the dependency on expensive financial external product. Experimented to create a chatbot service to fetch API responses using Rasa for easy checks and alerts.
- **Tata Institute of Fundamental Research** Bangalore, India  
*Research Intern - Advisor: Prof. A. S. Vasudeva Murthy* *Jan 2019 - June 2019*
  - **Time-series:** Performed modeling and factorization of time-series data using statistical features in domains like astronomy, finance, mathematics and commodity prices. [\[published paper\]](#)
  - **Structural pattern analysis:** Analyzed structural patterns in Onion prices using techniques like Hurst exponent, change point detection and cosinor fit, to study seasonality and external factors' effects. [\[article\]](#)
- **Inter-University Center for Astronomy and Astrophysics** Pune, India  
*Research Intern - Advisor: Dr. Kaushal Sharma* *Feb 2018 - Dec 2018*
  - **Deep Learning:** Learned to classify variable star classes in sky surveys using CNN-LSTM models. [\[article\]](#)  
Developed a method to eliminate the need of pre-processing large time-series datasets, reducing computational time by a factor of 10 and producing instant results from raw light curves.

## PUBLICATIONS

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- **Saksham Bassi, Atharva Gomekar, A. S. Vasudeva Murthy. A learning algorithm for time-series based on statistical features.** *International Journal of Advances in Engineering Sciences and Applied Mathematics* [\[Link\]](#)
- **Saksham Bassi, Atharva Gomekar. Deep Learning Diagnosis of Skin Lesions.** In *International Conference on Computing, Communication and Networking Technologies*, 10 (2019) [\[Link\]](#)

## PROJECTS

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- **Audio Denoiser:** Developed Autoencoder to denoise audio signals and implemented CNN on its spectrograms to qualitatively assess industrial processes.
- **RNNgen:** Implemented auto-generation of sounds, text & code using Recurrent Neural Networks using Python, and Keras. [\[blog\]](#) [\[code\]](#)
- **FirmIn:** Built product management tool for handling company's daily tasks like task assigning with Kanban boards, managing clients, analytics, grading, & assignments. [\[code\]](#)

## SKILLS

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- Python, PySpark, C++, Keras, Google Cloud Platform, PyTorch, scikit-learn, TensorFlow, Airflow, MongoDB, MySQL, L<sup>A</sup>T<sub>E</sub>X