Saksham Bassi

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INTERESTS

My primary research interests lie in Computer Vision, Time-series analysis and modeling and Deep Learning.

EDUCATION

- **Pune Institute of Computer Technology, University of Pune** — Pune, India
  Bachelor of Engineering in Information Technology; GPA: 8.67/10.0 — *July 2015 – June 2019*

- **Apeejay School** — Mumbai, India
  Higher Secondary CBSE, Computer Science; GPA: 93.2% — *July 2014 – June 2015*

EXPERIENCE

- **HSBC** — Pune, India
  Software Engineer — *July 2019 - Present*
  - **Data Science**: Gaining insights through Data and building applications in Global markets team

- **Tata Institute of Fundamental Research** — Bangalore, India
  Research Intern - Advisor: Prof. A. S. Vasudeva Murthy — *Jan 2019 - June 2019*
  - **Time-series modeling**: Statistical analysis and prediction on time series [paper; *in submission*]
  - **Computer Vision**: Worked on Precision Agriculture using drone images with Dr. Kota Harinarayana and Dr. Vidyadhar Mudkavi

- **Inter-University Center for Astronomy and Astrophysics** — Pune, India
  Research Intern - Advisor: Dr. Kaushal Sharma — *Feb 2018 - Dec 2018*
  - **Research**: Worked on Classification of Variable Stars using Deep Learning [paper]
  - **Deep Learning**: Classification using Convolutional Neural Networks on magnitude and time mappings, CNN-LSTM on time-series data

- **Asquared IoT** — Pune, India
  Research Intern - Mentor: Dr. Anand Deshpande — *Aug 2018 - May 2019*
  - **Research**: Audio signal processing and Deep Learning on the sound sensors data to qualitatively assess industrial processes

- **Promethean Energy** — Mumbai, India
  Software Engineering Intern — *Nov 2017 - Jan 2018*
  - **Analytics**: Flask dashboard to show patterns in anomalies on time-series sensor data, analyzed data and displayed it using Highcharts JS
  - **Optimization**: Reduced MongoDB query time by 90%, improved MEAN web-app loading time by 50% and added new functionalities

- **Redesyn** — Mumbai, India
  Software Engineering Intern — *May 2017 - June 2017*
  - **Development**: Designed automated mailer methods using sidekiq mailer in Ruby to send emails to customers after various tasks
  - **Design**: Developed new activity logs of various elements using Cassandra and improved admin-side pages

ACADEMIC PROJECTS

- **Data Pipeline & Task Management**: Developed web-app based on Flask and MySQL for company's daily tasks like task assigning with Kanban board, managing clients services, and salary calculation using employees' grades [source]
- **Classification of skin cancer**: Deep learning diagnosis of skin lesions; paper submitted to ICCCNT 2019 [paper]
- **Music generation using LSTM**: Trained LSTM model on songs to generate similar songs to the input
- **Polarity based Sentiment Analysis**: Calculates hype percentage of different mobile brands based on the polarity of tweets and stores output in excel file programmed in Python using Pandas and NLP library called textblob [source]
- **Web Scraping**: Scraping data from URLs and analyze it, and scraped all courses on Stanfords website and classify data fields of each course [source]

Key Skills

- **Fields**: Machine Learning, Web Scraping, Software Development, Data Science, Analytics

- **Languages**: Python (Keras, Beautiful Soup, Flask), C++, Ruby (RoR), JavaScript, MEAN