Saksham Bassi

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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*

EXPERIENCE

- **HSBC** — Pune, India
  Software Engineer — *July 2019 - Present*
  - **Chatbot**: Built a chatbot for clients to get response of APIs using Rasa & Python
  - **Analytics & Dev**: Built architecture to monitor app and on-prem logs; alert policies & automated VM processes
  - **Hackathon**: App for visually impaired by innovative features like Speech to text and gestures; Adobe Partner Award

- **Tata Institute of Fundamental Research** — Bangalore, India
  Research Intern - Advisor: Prof. A. S. Vasudeva Murthy — *Jan 2019 - June 2019*
  - **Time-series**: Modeling and factorization of time-series using statistical features in application areas like astronomy, finance, mathematical time-series, commodity prices [published paper]
  - **Structural pattern analysis**: Analyzing structural patterns in Onion prices using techniques like Hurst exponent, change point detection and cosinor fit, to conclude about seasonality and external factors' effects [article]
  - **Computer Vision**: Worked on Precision Agriculture in identifying diseases in farm fields on drone images [article]

- **Inter-University Center for Astronomy and Astrophysics** — Pune, India
  Research Intern - Advisor: Dr. Kaushal Sharma — *Feb 2018 - Dec 2018*
  - **Deep Learning**: Learning to classify variable star classes in sky surveys using CNN and CNN-LSTM on variations of brightness magnitude and time mappings, and raw time-series [article]

- **Asquared IoT** — Pune, India
  Research Intern - Mentor: Dr. Anand Deshpande — *Aug 2018 - May 2019*
  - **Research**: Autoencoder to denoise audio and CNN on spectrogram data to qualitatively assess industrial processes; explored spectral subtraction, filtering techniques for noise elimination

- **Promethean Energy** — Mumbai, India
  Software Engineering Intern — *Nov 2017 - Jan 2018*
  - **Analytics**: Flask dashboard to analyze anomalies' on time-series data; improved MEAN web-app load time by 50%

- **Redesyn** — Mumbai, India
  Software Engineering Intern — *May 2017 - June 2017*
  - **Development**: Creation of Ruby mailer methods and activity logs to serve thousands of customers

PUBLICATIONS

- **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

- **RNNgen**: Generating sounds, text & code with Neural Nets published on Analytics Vidhya Medium [blog] [code]

- **Data Pipeline & Management**: Developed a product management tool for handling company's daily tasks like task assigning with dynamic Kanban, managing clients, analytics, grading, & assignments. [code]

- **Brand hype - Sentiment Analysis**: Presents hype percentage of mobile brands based on polarity of tweets on respective brands which helps in driving marketing decisions. [code]

- **Unsupervised segmentation**: Automatic assigning labels to pixels by learning to identify objects in images and segmenting them with different colours.

PRESENTATIONS

- **IIT, *Kanpur***, *July 2019*: Presented research work of Deep Learning Diagnosis of Skin Lesions.

- **International Centre for Theoretical Sciences, *Bangalore***, *May 2019*: Presentation on time-series modeling using statistical features. [Video link]

- **TIFR, *Bangalore***, *May 2019*: Presentation on study of computer vision algorithms for Precision Agriculture.

SKILLS

- Python, C++, Ruby, Java, JavaScript, NodeJS, Angular, LaTeX, Spring, Keras