Sammed Shantinath Kagi

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B.Tech IIT Gandhinagar
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Education

- **Indian Institute of Technology, Gandhinagar** — Gandhinagar, India
  Bachelor of Technology in Computer Science and Engineering; CPI: 7.59 — *July. 2016 – July 2020*
- **Narayana Junior College** — Hyderabad, India
  Class XII; Percentage: 97.7% — *July. 2014 – May. 2016*
- **St. Anthony's High School** — Hyderabad, India
  Class X; GPA: 9.8 — *July. 2004 – May. 2014*

Publications

- **SEAL: Scientific Keyphrase Extraction and Classification**
  Ayush Garg*, Sammed Shantinath Kagi*, Mayank Singh
  Accepted at ACM/IEEE Joint Conference on Digital Libraries (JCDL) 2020
- **[Re] Hamiltonian Neural Networks**
  Ayush Garg*, Sammed Shantinath Kagi*
  Accepted at NeurIPS Reproducibility Challenge 2019, **ReScience C Journal**

Certificates

- **Deep Learning Specialization - deeplearning.ai**

Experience

- **Redpine Signals** — Hyderabad, India
  Artificial Intelligence Engineer — *July 2020 - Present*

Internships

- **Multi Commodity Exchange of India** — Mumbai, India
  Python and SQL Developer — *May 2019 - July 2019*
  - **Automated Birthday Email**: Scheduled VBA (Client side) and SQL Procedure (Server side) scripts to automate the Birthday Email sending job with inline HTML, CSS , VML template. Deployed on the organization's production server.
  - **Bhavcopy**: Web scraping - Python scripts for Historic and Real-time data scraping and ingestion into big data cluster.
  - **iCOMDEX Computation**: Python scripts to automate iCOMDEX index value computation based on an algorithm methodology document

Projects

- **Full Stack application - CourseGenie**
  - An academic course cataloging website with features for professors to propose new courses, accepting/rejecting/requesting edit for the submitted proposals by the administrator and viewing of the approved courses by the student community are some of its features.
  - This system is currently deployed on our institution server and is under testing stage.
  - **Technologies Used:**: Django, SQLite, HTML, CSS, Bootstrap
- **NLP - Key-phrase Extraction and Classification from Scientific Documents** — Report
  Mentor : Prof. Mayank Singh — *Aug2019 - Nov 2019*
  - A system to extract key-phrases from scientific journals and research papers and classify them into categories like Process, Task, Material etc.

- Our system surpassed the state of the art scores in both the tasks, extracting and classification of key-phrases.
- **Technologies Used:**: PyTorch, Keras, sklearn modules.

- **Hamiltonian Neural Networks**
  Accepted ReScience C Journal — NeurIPS 2019 Reproducibility Challenge *Oct 2019 - Dec 2019*
  - This paper proves that the generic Neural Networks do not conserve energy as stated by the basic laws of physics and they need to be modified using the concepts of Hamiltonian mechanics resulting in Hamiltonian Neural Networks
  - Reproduced all the results mentioned in the original paper in Tensorflow and added a few more experiments, not present in the original paper, to prove the above statement
  - **Links**: Paper, GitHub Code, ReScience C GitHub, Original Paper
- **Deep Learning - Unsupervised Cross Domain Image Generation** Poster — Report
  Mentor : Prof. Nipun Batra *Jan 2019 - Apr 2019*
  - A domain transfer network to generate images in the domain of MNIST from SVHN and in the domain of Bitmoji from MS Celeb Data.
  - A modified Generative Adversarial Network with custom loss function is implemented to achieve domain transfer in an unsupervised manner.
  - **Technologies Used:**: PyTorch
- **Full Stack application - SoccerBook**
  Mentor :Prof. Mayank Singh *Jan 2019–Apr 2019*
  - A full stack website for soccer statistics.
  - Incorporated interactive web-pages, SQL queries to respond to user requirement of statistics.
  - **Technologies Used:**: Django framework, SQL database
- **NLP - Analyzing why product's receive bad reviews** Poster
  Mentor :Prof. Mayank Singh *Aug 2018–Dec 2018*
  - Aspect based sentiment analysis on the reviews and identifying why a product receives bad reviews.
  - Involves Feature Extraction, Sentiment Analysis, Text Summarizing and concepts from causal inference theory
  - **Technologies Used:**: NLTK, Vader

Technical and Personal skills

- **Programming Languages**: Python [Proficient], C, C++[Intermediate]
- **Web Technologies**: HTML,CSS, MySQL, Django, MongoDB, JavaScript
- **Other**: Languages known: English, Hindi, Kannada, Telugu

Positions of Responsibility:

- **Chief Election Commissioner:** *Student Election Commission - IIT Gandhinagar*
  - Led a team of 6 students and conducted the Student Council Elections of IIT Gandhinagar 2019-20 with a record voter turnout.
- **Ignite 4.0 Core Committee member:** *Inter-College Technical Fest of IIT Gandhinagar*
  - Lead a team of 80 students to organize the event.
  - Got an exposure of handling logistics, management of different departments, scheduling and marketing of events.
- **Senator:** *For B.Tech batch of 2016 for the Academic Year 2016-2017*
  - Represented my batch, in various aspects, in the Student Senate of IIT Gandhinagar
- **Student Guide***For B.Tech batch of 2017 for the Academic Year 2017-2018*
  - Mentored and guided first-year students of B.Tech 2017 through their first year, providing a friendly link to establish them in the institute for perceiving a new life away from home and among people from across India

Relevant Courses

- Data Structures and Algorithms I and II, Natural Language Processing, Databases, Machine Learning

Extra-Curricular Activities

- Performed multiple stage plays and represented IIT Gandhinagar in Inter IIT Cultural Meet Street and Stage play held in December 2017.
- Event Organizer of Innovent at Amalthea'17- a platform to present creative solutions to problems based on a given theme.