ANUSH KUMAR VENKATESH

Email : anushkumarv3 [at] gmail [dot] com

Education

- **Ramaiah Institute Of Technology**, *Bengaluru, India*   *August 2015 - July 2019*
  B.E in Information Science and Engineering *CGPA : 9.48*

Work Experience

- **J.P.Morgan & Chase**
  Associate Software Engineer   *Jan 2019 - present*

  o Contributed to a new heuristic-based calculator. It takes into account market parameters and determines the risk associated with multiple clients the firm actively trades with.

  o Refactored the legacy code responsible for the distribution logic of processing data from multiple clients at the same time. It helped in reducing the execution time by 4 hours.

  o Contributed to migrating the codebase from python 2.7 to python 3.6

- **Stride.ai Inc**
  Summer Intern   *Jun 2018 - Aug 2018*

  o Developed a data scraping tool using python. It helped in automatically downloading publicly available documents from financial domains and extract key data points.

  o Tagged data to identify the regions containing tabular data in PDF-based documents. The data helped in training a CNN-based model to extract tabular information.

Technical Talk

- **Workshop on Software Design Patterns**   *May 2022*
  Was responsible for partial delivery of post-graduate (MSWE12) and under-graduate (IS62) *Software Design Patterns* course at *Ramaiah Institute Of Technology*. The workshop covered behavioral and creational patterns.

- **Hands on Workshop on using Git, Github and Node js**   *May 2019*
  Conducted a series of workshops to peers, junior year, and sophomore year students as part of the developer student community. It covered version control systems and node js.

- **Teaching Assistant for Scripting Languages Lab**   *Aug 2017 - Dec 2017*
  Was in charge for conducting weekly beginner level python classes to peers.

Publication

- **Anush Kumar**, Nihal V. Nayak, Aditya Chandra and Mydhili K. Nair. **Study on Unsupervised Statistical Machine Translation for Backtranslation**. *Proceedings of Recent Advances in Natural Language Processing (RANLP 2019),Varna, Bulgaria*. (link)

Projects

- **Tactile Auditory Learning Kit**   *Jan 2018 - Jul 2018*

  o Implemented a CNN-based model to extract edges out of images and developed an algorithm to fit appropriate Braille characters along the edges of the image. It assisted in printing low-cost tactile graphics.

  o Developed a GUI to assist in converting a PDF-based textbook into its Braille equivalent.

  o The project is currently deployed at **Mathru blind school**, *Bengaluru*.

- **Data Science with Julia** - *Jupyter notebooks*   *Aug 2019 - Dec 2019*

  o Contributed code snippets for a book explaining data science concepts with *Julia*. (yet to be published) (link)

- **Mathematical Reasoning using MathQA[1] dataset** *Aug 2021 - Mar 2022*
  - o Worked on building a transformer based Fixer module to automatically correct the incorrectly annotated datapoints from MathQA dataset using self-supervision.
  - o The Fixer corrected 16% of incorrectly annotated datapoints from training set (link)

Awards and Certifications

- **Smart India Hackathon** *(National level)* *Mar 2018*
  Inspiration award by *Ministry of Social Justice and Empowerment, Government of India* for implementing *Tactile Auditory Learning Kit*

- **ITC info tech codeathon** *May 2017*
  Special jury award winners for developing an in-app feedback system using android, express-js, and mongoDB

- **NPTEL** Appeared among the top 5 percent in the completion of **Design And Analysis Of Algorithms** in a nationwide conducted test by *Indian Institute of Technology, Madras* *Mar 2017*

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[1] https://math-qa.github.io/