ANUSH KUMAR V

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Education

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

Work Experience

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

  - 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.
  - Refactored the legacy code responsible for the distribution logic of processing multiple clients at the same time. It helped in reducing the execution time by 4 hours.
  - Contributed to migrating the codebase from python 2.7 to python 3.6

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

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

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**   *2018*

  - 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 helped in printing low-cost tactile graphics.
  - Developed a GUI to assist in converting a PDF-based textbook into its Braille equivalent.
  - The project is currently deployed at **Mathru blind school**, *Bengaluru*.

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

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

- **Mathematical Reasoning using MathQA[1] dataset**   2021

  - Worked on building a transformer based Fixer module to automatically correct the incorrectly annotated datapoints from MathQA dataset using self-supervision.
  - The Fixer corrected 16% of incorrectly annotated datapoints from training set (link)

Technical Talk

- **Hands on Workshop on using Git, Github and Node js**   *2018*
  Conducted a series of workshops to peers and juniors as part of the developer student community.

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

Awards and Certifications

- **Smart India Hackathon** *(National level)* *2018*
  Consolation prize for implementing *Tactile Auditory Learning Kit*

- **ITC info tech codeathon** *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 *2017*