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**EXPERIENCE**

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**• Small Joys***AI Engineer**Aug 2022 – Present*

- **Inclusive AI:** Working on mitigating unintended bias to improve robustness against adversarial text.
- **Deployment:** Built inference API pipeline on AWS. Tools: Lambda, DataSync, EC2, Docker, FastAPI.
- **Health:** Pilot project for predicting behavioral health from therapy sessions.

*AI Engineer Intern**Nov 2021 – Jul 2022*

- **Insights:** Part of the therapist dashboard - shows easy-to-digest information from user journals using an ensemble of modules. R&D on Themes and Journal Abstraction AI modules.
- **ScreeenerOMR:** Python package for extracting answers and relevant data from scanned medical screeners.
- **Annotation:** Setup annotator cohorts with a team lead and designed labeling process for golden data generation. Built classification data augmentation module using GPT-3.

**• Google Summer of Code***Student Software Developer**Jun 2021 – Aug 2021*

- **GenomicInfo:** Researched and created an automated framework for genomic data extraction from C. Elegans papers for WormBase using hybrid combination of regular expressions, dictionary of terms and BERT NER.
- **Results:** Slashed the former biocuration timing of hours to few minutes, and also discovered new data from old papers previously missed during manual curation.

**• Centre for Development of Advanced Computing***Research Intern**Apr 2021 – Jun 2021*

- **Masked Face Recognition:** Worked with the image processing team on designing a mask compatible facial recognition system implemented for low-end devices using Python/TFLite.

**• Myraa Technologies***AI Solutions Intern**Sep 2020 – Mar 2021*

- **Object Detection:** Crafted custom object detection model for wearable low-end devices using TFLite/Android Studio/Java.
- **Exam Proctor:** Designed an end-to-end online exam proctoring pipeline from scratch consisting of facial recognition and features tracking, and gadget detection.
- **CAD Comparer:** Programmed an engineering drawing comparison tool for universities.
- **Other POCs:** Car damage diagnosis system on low data, & explored usage of privacy-preserving DL with PySyft.

**• Tata Steel***Data Analyst Intern**Aug 2020 – Sep 2020*

- **Analysis:** Coded scripts to remove discrepancies in geographical data for the local dealers using mapping APIs.

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**AWARDS**

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- **Dr. APJ Abdul Kalam IGNITE Award** | *National Innovation Foundation - India* November 2015
  - Received IGNITE 2015 award by the former President of India, Pranab Mukherjee, for the idea 'Pay as you weigh' - one of 31 innovations selected from 28,106 submissions across India. Patent ID: 1189/KOL/2015
- **Regional Winner of ZooHackathon** | *WWF* November 2019
  - Awarded for engineering best solution to curb wildlife trafficking among 12 other finalists
- **Finalist of ACM India East Hackathon** | *Association of Computing Machinery* February 2020
  - Recognized for making sign language prediction app during a 24-hr hackathon - one of 10 finalists from east India.

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**PUBLICATION**

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**Accelerated variant curation from scientific literature using biomedical text mining (Jun 2022)**

Rishab Mallick, Valerio Arnaboldi, Paul Davis, Stavros Diamantakis, Magdalena Zarowiecki, Kevin Howe

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**EDUCATION**

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- **St. Thomas' College of Engineering and Technology** India
  - *Bachelor of Technology in Computer Science & Engineering, GPA: 8.84* 2018 – 2022