
EXPERIENCE

• 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.

AWARDS

- **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 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.

PUBLICATION

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

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

EDUCATION

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