




# Arvinth Arun

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## Education

- **International Institute of Information Technology, Hyderabad** Hyderabad  
*B.Tech + MS by Research in Computer Science and Engineering* 2019 - Current
  - Cumulative GPA 9.07/10
  - Dean's Academic List - 2020-21, 2021-22, 2022-23
  - Served as a Teaching Assistant for Data & Applications, and Computational Social Science
  - Represented the college Football team

## Experience

- **Applied AI/ML Intern - JPMorgan Chase** Bangalore  
*Corporate Investment Banking Division* May 2023 - July 2023
  - Worked on mining interesting insights from transactional databases for Root Cause Analysis.
  - Utilized streaming frameworks such as PySpark to optimize the workflow.
  - Proposed a new framework utilizing unsupervised GNNs inspired by the CTR prediction domain.
- **Research Intern - The Chinese University of Hong Kong** Hong Kong  
*Mentor: Prof. Hong Cheng* June 2022 - August 2022
  - Worked on the domain of Clustering/Community detection in Dynamic social networks and studying their properties.
  - Focused on minimizing the time complexity and the space complexity of the existing real-time solutions.
  - Explored various state-of-the-art solutions and building a visualization tool to study their efficacy.
- **Undergraduate Researcher - Precog Research lab** Hyderabad  
*Mentor: Prof. Ponnuram Kumaraguru "PK"* May 2021 - Current
  - Analyzing social networks and other large networks primarily using their network information.
  - **Georgia Institute of Technology, Atlanta** - Collaboration with Prof. **Polo Chau** on analyzing the Quantitative and Qualitative impact of fraudulent behavior on social networks and their identification.
  - **Adobe Research, Bangalore** - Collaboration with Dr. **Ramasuri Narayanam** on exploring the landscape of group fairness in unsupervised GNNs.
  - **Indiana University, Bloomington** - Collaboration with Prof. **Jisun An** on analyzing the changes to hate speech after the liberalization of social media platforms.
- **Cross Platform Development Intern - Nemocare** Bangalore  
*Flutter and React Native* January 2021 - May 2021
  - Our team worked on the first prototype of the Android and iOS app for this Google accelerated startup as part of a course project.
  - Worked on integrating the app with their hardware solution via Bluetooth for real-time data streaming.
  - Integrated the app with their pre-existing AWS backend ecosystem and made use of their products like Lambda and EC2.
  - Performance benchmark and responsive analysis conducted between the two versions we built using different frameworks.




## Publications

- **CAFIN: Centrality Aware Fairness inducing IN-processing for Unsupervised Representation Learning on Graphs**  
*Arvindh Arun, Aakash Aanegola, Amul Agrawal, Ramasuri Narayanam, and Ponnuram Kumaraguru, Frontiers in Artificial Intelligence and Applications. IOS Press, Sep. 28, 2023. doi: 10.3233/faia230259* 
- **Erasing Labor with Labor: Dark Patterns and Lockstep Behaviors on the Google Play Store**  
*Ashwin Singh, Arvindh Arun, Pulak Malhotra, Pooja Desur, Ayushi Jain, Duen Horng Chau, and Ponnuram Kumaraguru. 2022.*  
In Proceedings of the 33rd ACM Conference on Hypertext and Social Media (HT '22), Barcelona, Spain. Association for Computing Machinery, New York, NY, USA, 186–191.  
Work covered by Montreal AI Ethics Institute.
- **Ensembling Pre-Trained Language Models with Feature Engineering**  
*T. H. Arjun, Arvindh A., and Kumaraguru Ponnuram. 2021.*  
In Proceedings of the GermEval 2021 Shared Task on the Identification of Toxic, Engaging, and Fact-Claiming Comments, pages 39–46, Duesseldorf, Germany. Association for Computational Linguistics.  
Ranked 6th worldwide on all the three subtasks combined. 

## Awards and Honours

Microsoft Research Travel Grant worth \$2500 . . . . .	2023
Stellantis NV Hackathon – First Runner-Up . . . . .	2022
Facebook Hackercup – Round 2, Top 10% Globally . . . . .	2022
GermEval – Ranked 6 <sup>th</sup> Worldwide on cumulative task rank . . . . .	2021
PicoCTF by CMU – Ranked 102 <sup>nd</sup> globally out of 4822 participants . . . . .	2020
Google Hashcode – Ranked 457 <sup>th</sup> in India . . . . .	2020
Howzhack (DreamVu) – 2 <sup>nd</sup> place . . . . .	2019
UGEE – 20 <sup>th</sup> rank in India . . . . .	2019
JEE – Top 1.9% in India . . . . .	2019
NextGenius Scholarship – Finalist (University of South, Tennessee) . . . . .	2018

## Projects

- **Privacy Policy QnA bot**  
Fine-Tuned Jurassic-1 language model on a new dataset consisting of top Indian companies' Privacy Policies for QA and Summarization tasks. Also deployed a Telegram bot for easy access by connecting it with our hosted model. 
- **Spccesh Shell**  
A shell written in C from scratch having various features like process monitoring, I/O redirection, pipelining and signal handling. 
- **xv6-extended**  
The infamous xv6 OS modified to include various task scheduling improvements using Multi-level feedback queues, priority queues and modified stacks and their performance comparison. 
- **plusOne**  
A cab-sharing system designed for the college community using Django and SQL. 