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## Education

- 12/2020 – 05/2024 **B.Tech. in Computer Science and Engineering, PES University**  
CGPA: 9.24/10  
Undergraduate Research: "Detection and Analysis of Cryptocurrency Scams on Twitter"
- 06/2018 – 03/2020 **Senior Secondary, Sri Kumarans Children's Home Educational Council**  
Grade: 93.2%
- 06/2008 – 03/2018 **High School, Clarence Public School**  
Grade: 92%

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## Work Experience

- 10/2023 - ongoing **Research Associate, Precog, International Institute of Information Technology, Hyderabad**
- Advised by Prof. Ponnuram Kumaraguru
  - **Identifying controversial posts on Reddit in the Indian political context** [↗](#)
    - We find that supplementing the GNNs with specific topological encodings (Persistent Homology) to model the temporal evolution of the post-comment hierarchy improves their performance
    - We also find that benchmarks in this domain are not representative of real-world imbalanced class statistics
    - Accepted at **BeyondFacts@WWW'25**
  - **Using Laplacian Methods for long-ranged predictions of node attributes**
    - Utilizing Laplacian and steady-state assumption in an Opinion Dynamics Equation to predict the node attributes of nodes using information of stubborn actors (nodes whose attributes do not change over time)
  - **Great Models Think Alike and this Undermines AI Oversight** [↗](#)
    - We find that LLM-as-a-judge scores favor models similar to the judge, generalizing recent self-preference results.
    - We study training on LM annotations, and find complementary knowledge between the weak supervisor and strong student model plays a crucial role in gains from weak-to-strong generalization.
    - We study how model mistakes are becoming more similar with increasing capabilities
    - Accepted at **SSI-FM@ICLR'25**.
    - Spotlight poster at **ICML'25**
- 06/2024 – 10/2024 **Teaching Assistant, NPTEL**
- TA for Responsible and Safe AI course taught by Prof. Ponnuram Kumaraguru, Prof. Balaraman Ravindran, and Prof. Arun Rajkumar
  - Responsible for designing all assignments and question papers part of the course and reviewing the course content
  - Course was taken by around 11,000 people all over India
- 08/2023 – 12/2023 **Teaching Assistant, PES University, Bangalore**
- TA for the courses Machine Intelligence and Big Data
  - Responsible for designing and grading the assignments.
  - Conduct hands-on tutorials and mentored projects for over 120 students.
- 02/2023 - 05/2024 **Undergraduate Researcher, PES University, Bangalore**
- **Detection and Analysis of Cryptocurrency Scams on Twitter** [↗](#)
  - Advised by Dr. Sudeepa Roy Dey
    - Created a cryptocurrency-centric Twitter dataset with tweet content and metadata.
    - Identified potential scam tweets that propagate various kinds of scams.
    - Analyzed the community of users involved in these scams and identified key characteristics of the communities.
    - Work accepted at 18th International Conference on Algorithmic Aspects in Information and Management (**AAIM 2024**)

06/2023 – 08/2023

**Data Engineering Intern, Bosch Global Software Technologies, Bangalore**

- Contributed to enhancing the company's ETL data pipeline.
- Added several additional functionalities, such as a generalized API and Kafka data extraction, integrating with their existing data pipeline
- Skills: Azure frameworks, Kafka, API, Databricks

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## Projects

Big Data

**Yet another Kafka**

- A Big Data course project that emulates the basic functions and features of the Kafka publisher-subscriber model.
- The project supports several features of Kafka, such as support to multiple publishers and subscribers for a particular topic, logging, data replication among 3 brokers, broker leader, and partitioning.
- Tools & technologies used: Python, Socket Programming.

Machine Intelligence

**Using Q-routing for finding the best path in a congested network**

- A machine intelligence course project combined with computer networks concept.
- The project simulated a packet traversal in a network with features such as packet dropping when traversing between nodes. Using Q-learning to give reward points in case of successful transmission and quadratic penalty when packets were dropped, the best paths were found to minimize packet dropping.
- Tools & technologies used: Python, Reinforcement Learning, Q-learning.

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## Skills and Interests

Areas of Interest

Model Robustness, Data-centric AI Safety

Languages & Framework

Python, Tensorflow, Keras, Pytorch, NLTK

Relevant Coursework

Calculus I, Calculus II, Statistics for data science, Linear Algebra, Machine Intelligence, Topics in Deep Learning, Natural Language Processing, Data Analytics, Research Methodology, Reinforcement Learning

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## Achievements and Extracurricular

Academic

**Scholarships and Awards**

- Received MRD Scholarship every semester for being in the top 20%.
- Received an award in grade 10 for scoring 100 in Computer Science.

Music

**Extracurricular**

- Passed the Karnataka Music (vocal) Junior Grade Examination