

# ARPIT GOLE

Adelaide, SA, Australia

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## CAREER SUMMARY

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An enthusiastic computer scientist fascinated with Reinforcement Learning. Proven understanding of Statistical models, Machine Learning Stack and Phases of Machine Learning Workloads to deliver revolutionary products.

## EDUCATION

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**The University of Adelaide** Feb 2021 - Present  
Master of Machine Learning

- Technical Specialisation – Artificial Intelligence and Deep Learning.

**Atria University** Aug 2014 - Jul 2018  
Bachelor of Computer Science and Technology

- Graduated *summa cum laude* with minor in Computer Graphics and Visualization.

## RESEARCH EXPERIENCE

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**Summer Researcher** Nov 2021 – Feb 2022  
School of Computer Science, The University of Adelaide Adelaide, Australia

- Completed research under Professor Hung Nguyen by analysing the complexity of the Active Directory (AD) graph as it evolves over time. As the complexity stacks up the task of sniffing attack paths become challenging. These attack paths pose a security threat to organisational data. Developing ways to identify security loopholes in AD architecture and rectify them without the need for manual processes.

**Graduate Student Researcher** May 2021 – Aug 2021  
School of Computer Science, The University of Adelaide Adelaide, Australia

- I assisted Professor Andrey Kan in developing a recommender system using Knowledge Graph (KG), particularly developing a method to use all available information (user-item interaction, User and item attributes and KG), dealing with the cold start problem. Constructed a recommender system with query-based capabilities having linear time and space complexity.

## PROFESSIONAL EXPERIENCE

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**Academic Staff Member** Feb 2022 – Present  
School of Computer Science, The University of Adelaide Bengaluru, India

- I'm coordinating with Professor Mark Jenkinson to deliver the COMP SCI 3317 - Using Machine Learning Tools course in semester 1, 2022. To perform a wide array of tasks like setting up quizzes, marking and more.
- Operating Gradescope for the COMP SCI 3007 - Artificial Intelligence course in semester 1, 2022, under the guidance of Professor Tat-Jun Chin. As a result, drastically reduced the time consumption of resource(s) required for marking assignments of 100+ students.

## Software Development Engineer II

Nineleaps

Oct 2020 – Feb 2022

Bengaluru, India

- Engineered and spearheaded a multi-tenant cloud-based SaaS application designed to automate back-end processes. Attained targeted advertising (recommender systems) and maximized supplementary income - secured a 40% increase in revenue.
- Wrote 10+ modules, including critical payment gateways and optimised the order processing workflow throughout the ecosystem.
- Mentored juniors to build robust applications, set higher goals, communicate constructive feedback at regular intervals.

## Software Development Engineer I

Nineleaps

Aug 2018 - Oct 2020

Bengaluru, India

- Built an Alexa skill for the Human resources department, streamlined various processes. Coded several machine learning algorithms for natural language processing (NLP) and examined them to have a 95% accuracy rate.
- Developed an understanding of machine learning techniques and algorithms. Algorithms – Regressions, k-NN, Decision Trees, Random Forest, Support Vector Machines (SVM), K-Means clustering, Deep Learning and Neural Networks.
- Designed and programmed for scalability, performance, and reliability with cloud-based solutions, especially Amazon Web Services (AWS) S3, Lambda, SNS, SES, EC2, DynamoDB and packages NLTK, Scikit-learn and TensorFlow.

## SKILLS

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- **Programming Languages:** Python, C#, JavaScript, C and C++.
- **Cloud Platforms:** Amazon Web Services (AWS) and Google Cloud Platform (GCP).
- **Database Systems:** MySQL, NoSQL (DynamoDB) and Elastic Search.
- **Frameworks:** TensorFlow, PyTorch, Scikit-Learn, NLTK, NumPy, Pandas, Matplotlib, Seaborn and Plotly.
- **Web:** REST API and GraphQL.
- **Data Structures and Design Principles:** Fluent with concepts used in algorithmic competitions and machine learning research. Expert in Domain Driven Development (DDD).

## VOLUNTEER EXPERIENCE

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### Student Engagement Committee

The University of Adelaide

Mar 2021 – Present

Adelaide, Australia

### ECMS Faculty Board Member (Postgrad. Representative)

The University of Adelaide

Mar 2021 – Dec 2021

Adelaide, Australia

### Social Media Campaign Analyst

Vishva Hindu Parishad of Australia Inc. (SA)

Mar 2021 – May 2021

Adelaide, Australia

## ACHIEVEMENTS

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- **Global IQ Connect** Mar 2021 – Apr 2021
- **National Cadet Corps (NCC)** Lifetime Member
- **National Handball Player** Mar 2011 - Apr 2014