ARPIT GOLE

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CAREER SUMMARY

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

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

Summer Researcher   Nov 2021 – Feb 2022
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
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.

INDUSTRY EXPERIENCE

Software Development Engineer II   Oct 2020 – Feb 2022
Nineleaps   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.
- Mentoring juniors to build robust applications, set higher goals, communicate constructive feedback at regular intervals.

Software Development Engineer I   Aug 2018 - Oct 2020
Nineleaps   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

- **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

Student Engagement Committee   Mar 2021 – Present
The University of Adelaide   Adelaide, Australia

ECMS Faculty Board Member (Postgrad. Representative)   Mar 2021 – Dec 2021
The University of Adelaide   Adelaide, Australia

Social Media Campaign Analyst   Mar 2021 – May 2021
Vishva Hindu Parishad of Australia Inc. (SA)   Adelaide, Australia

ACHIEVEMENTS

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