ARPIT GOLE

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CAREER SUMMARY

An enthusiastic computer scientist currently studying Master of Machine Learning with demonstrated 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 – Present
The University of Adelaide   Adelaide, Australia
- Assisting Professor Hung Nguyen in building Reinforcement Learning (RL) algorithms which provides a promising direction for Autonomous Cyber Operations (ACO) decision-making. Hence, developing algorithms for cyber agents in a time-varying environment where the state-space and the reward structure change abruptly.

Graduate Student Researcher   May 2021 – Aug 2021
The University of Adelaide   Adelaide, Australia
- Assisting 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), deals with the cold start problem with a query-based system having linear time and space complexity.

INDUSTRY EXPERIENCE

Software Development Engineer II   Oct 2020 - Present
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

Social Media Campaign Analyst Mar 2021 - Present

Vishva Hindu Parishad of Australia Inc. (SA) Adelaide, Australia

- Diversified and conveyed strategies for social media campaigns. Collaborated with other volunteers to generate content to spread the words about the Hindu Society.

ACHIEVEMENTS

- **National Handball Player** Mar 2011 - Apr 2014
- **National Cadet Corps (NCC)** Jan 2013 – Present

RELEVANT CERTIFICATIONS

Reinforcement Learning Specialization Course Sep 2020 - Nov 2020

University of Alberta

Machine Learning by Stanford University Mar 2020 - Apr 2020

Coursera