

Abhinav Sharma

Analyst, Data Science Enthusiast & Full Stack Software Engineer

A motivated professional with a Masters in Data Science and 3+ years of experience in tackling challenging situations with innovative thinking abilities, rapid problem-solving, and software development using innovative and simplified approach.

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📍 Victoria, Australia

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AREAS OF EXPERTISE

Core Languages - C#, JavaScript

Functional Languages - Python, R

ML - TensorFlow, PyTorch, Scikit-learn

Statistical Concepts & Algorithms

Model - Regression, Classification, Unsupervised

Azure Platform Design/Deployment

Azure Development with CI/CD

Cloud Exposure - AWS, Azure, GCP, Nectar

Web Frameworks - React, Node.js

Core Dev Frameworks - .NET 4+, .NET Core

Core Databases - SQL Server, MySQL

Other DBs - CouchDB, MongoDB

Reporting - Tableau, SSRS, Excel

Automation - Ansible, Docker, Kubernetes

CI/CD - Jenkins, Travis CI, DevOps

PROFESSIONAL EXPERIENCE

Analyst - Platform Engineering (3+ months)

Deloitte Australia

03/2021 - Present

Victoria, Australia

Achievements/Tasks

- Built highly reliable **Azure-based platforms** for the clients using AGILE approach with Azure DevOps CI/CD.
- Implemented highly scalable and robust solutions for the clients using **.NET Core and Azure services**.

Programming Languages Tutor (8 months)

SuperProf

06/2020 - 02/2021

Victoria, Australia

Achievements/Tasks

- Shared professional knowledge and experience to the students by teaching them valuable programming skills.
- Provided lessons on a broad language spectrum using custom practical applications - Python, C#, Swing, ASP.NET, React, Redux.

Summer Vacationer - Platform Engineering (1 month)

Deloitte Australia

01/2020 - 02/2020

Victoria, Australia

Achievements/Tasks

- Delivered a generic logging **Azure function** built on .NET Core framework using Dependency Injection and Serilog.
- Implemented a **MERN** web application for developing a learning management system (LMS) for employees.

Software Engineer (3.4 years)

Indus Valley Partners [🔗](#)

07/2015 - 01/2019

Noida, India

IVP provides award-winning solutions to unlock value and create insight for Alternative Asset Managers.

Achievements/Tasks

- Implemented complete end-to-end flow for **Enterprise Search** Project – handling front-end, middle-end and back-end.
- Designed highly scalable, robust and **flexible bot framework** using Natural Language Processing and intent training, which can be used to solve financial domain use cases and can be interacted in free text manner.
- Worked on creating an **OMS** where potential clients can now book trades of respective tickers in which they want to trade, using well-designed web portal which provides several intuitive and effective functionalities.
- Increased security standards for all products of the company which are exposing **Web APIs** for external system access.
- Incorporated efficient data indexing python application to quickly index data from appropriate data source to **ElasticSearch** and finding relations in indexed data for effective **data discovery**.

EDUCATION

Master of Data Science University of Melbourne

03/2019 - 12/2020

Description/Courses

- Graduated with a First Class Honours (H1) Grade - **86.750 Weighted Average Marks (WAM)**.
- Comprehensive and detailed study in the tools and techniques related to data science - Statistical Modelling, Statistical Machine Learning, Natural Language Processing, Cluster and Cloud Computing, Artificial Intelligence Planning for Autonomy.

Bachelor of Technology - Computer Science and Engineering Amity University

08/2011 - 06/2015

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) (04/2021 - Present)

Proved knowledge of cloud concepts, Azure services, Azure workloads, security and privacy in Azure, as well as Azure pricing and support.

Microsoft Certified Solutions Associate - Web Applications (11/2017 - Present)

Demonstrated the expertise at implementing modern web apps using latest .NET framework technologies.

AWS Certified Cloud Practitioner (CLF-C01) (04/2021 - Present)

Gained the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud.

Microsoft Specialist - Programming in HTML 5 with JavaScript and CSS 3 (08/2016 - Present)

Demonstrated an understanding of object-based, event-driven programming model, and programming essential business logic.

PERSONAL PROJECTS

AI Capture the Flag Pacman Contest [🔗](#)

- Trained pacman for the contest using several AI algorithms like MCTS, PDDL, and approximate Q-learning.

Bengio's NPLM using PyTorch [🔗](#)

- Implemented the proposed Natural Language Model using PyTorch with GPU acceleration.

Data Science Major Project - Space Optimisation [🔗](#)

- Suggested reasonable space optimisation opportunities for the University of Melbourne using QGIS 3 and Python.

Docker Swarm Load Balancer (AWS EC2 Cluster) [🔗](#)

- Deployed a Docker Swarm load balancer on a multi-node Amazon EC2 cluster.

AI Reinforcement Learning [🔗](#)

- Project to implement and test agents using value iteration, Q-learning and approximate Q-learning.

Multi-armed bandits (MAB) [🔗](#)

- Implemented 5 different MAB algorithms which are provided in different latest research papers using Python.

HONORS & AWARDS

Tech Upcoming Shining Star (08/2016)

Indus Valley Partners

- Awarded for creating robust and stable CODEBASE for Enterprise Search in minimal amount of time.

100% Scholarship - B.Tech CSE (08/2011 - 06/2015)

Amity University, Noida

- Awarded scholarship for 4 years because of excellent grades in academics during 12th class and 3 years of B.Tech CSE coursework.

PUBLICATIONS

Research Paper

Searching k-Optimal Goals for an Orienteering Problem on a Specialized Graph with Budget Constraints [🔗](#)

Nov 02, 2020

Cornell University

Research Paper

A Review on Digital Image Watermarking Techniques: An Intellectual and Sophisticated Analysis [🔗](#)

May 20, 2015

International Journal of Computer Applications (IJCA)

INTERESTS

 PlayStation

 Science Fiction

 Cycling

 Astrophysics