

KARANDEEP SINGH DHILLON

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Professional Summary

Highly skilled software engineer with over 6 years of experience in AI, machine learning, and web development. Proven track record in developing and deploying large-scale applications and automated systems. Strong analytical and problem-solving skills, with a deep understanding of data analytics and cloud computing. Excellent communication and leadership abilities, demonstrated through various teaching and managerial roles.

Education

Memorial University of Newfoundland

2021 – 2024

Masters in Computer Science, Bachelors in CS with Data Analytics from IBM UPES

Work Experience

MeddAI Medical Inc

Apr 2022 – Jun 2024

Sr. Programmer/Analyst

St. John's

- Developed and deployed a responsive website using Bootstrap and React.js on AWS GPU instances, ensuring high performance with Elastic Load Balancer.
- Automated medical report generation using AWS Lambda functions, following the Model-View-Controller (MVC) architecture for structured and efficient development.

Memorial University of Newfoundland

Nov 2021 – Apr 2024

Teaching Assistant

St. John's

- Taught Machine Learning, Relational Database, Algorithm Design, Machine Vision labs to Grads.

Jio Platforms

Jun 2021

Deputy Manager (Surveillance Data Analyst) - AI

Remote

- Implemented Power BI's anomaly detection features to monitor sales data in real-time.
- Created visualizations to highlight transactions that deviate significantly from historical data, such as sudden spikes in high-value purchases, which helped identify and investigate potential fraudulent activities promptly.

NewSpace Research and Technologies

Jun 2020 – Jun 2021

Machine Learning Engineer 3 (Lead) - AI

Remote

- Published 2x technical research paper on latest machine learning models for investors and stakeholders.
- **Technologies** used: **Tensorflow** for Machine Learning, **PowerBI** for Analytics, **OpenCV** for Image Processing, **Azure SQL Database** for storage.

Einsite

May 2018 – Jun 2020

CV Engineer - Senior Programmer Analyst

San Francisco, California

- Successfully migrated project management workflows to SharePoint, which improved team collaboration and document management efficiency by 25%.
- Created a comprehensive dashboard in Tableau that visualized key performance indicators, aiding senior management in strategic decision-making.

Projects

LSRC: Won Leaf Classification competition at CVDC 2020 Conference

[Source Code](#)

- Engineered and deployed scalable REST microservices using Docker.

Website Development and Data Management

SP Driver Training

- Developed and managed a high-traffic website, implementing data collection and analysis processes.

Papers

Lung Cancer Prediction Using AI

Newfoundland Electrical and Computer Engineering Conference

Technical Skills

Languages: Python, Java, C, C++, JavaScript, JSON, .NET Core/Framework, C#, ASP.NET

Backend: Django, Node.js, Express.js

Frontend: React, TailwindCSS, HTML, CSS, Bootstrap, Microsoft Power Platform

Visualization: Tableau, Power BI **Clouds & Databases:** AWS, GCP, PostgreSQL, MongoDB, SQL

Web Technologies: Docker, Socket.IO, Redis

Developer Tools: Postman, VS Code, GitHub, Xcode

DevOps: Ansible, Jenkins, Kubernetes, Terraform, CI/CD, AWS CloudFormation, Elastic Load Balancer

Skills: Statistics, Machine Learning, performance reporting, cost, forecast reporting, product development,

Algorithmic Competitions/Achievements

Solved 300+ super hard DSA problems from Codeforces. Secured Rank 1/400+ participants in the flagship CVDC Conference. Won Three Minute Thesis competition at MUN.