

Abhishek Chauhan

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abhishek-portfolio.tech

EDUCATION

- **The University of Texas at Dallas** Dallas, US
Master of Science - Computer Science GPA: 4.00/4.00 *August 2022 - May 2024*
- **National Institute of Technology(NIT) Patna** Patna, India
Bachelor of Technology - Information Technology; GPA: 7.85/10.00 *August 2015 - June 2019*

PROJECTS

- Implemented **machine learning** models on a 400K-record dataset from the 2020 annual CDC survey. Employed techniques such as **logistic regression**, **Naive Bayes**, **Decision Tree**, **XGBoost**, and **K Nearest Neighbors** to predict heart disease, contributing to medical care enhancement through risk factor identification
- Curated a comprehensive dataset for pretraining by **scraping** Spanish content from 120 websites, focusing on political conflict and violence across various news categories, to supply it to an **LLM (Large Language Model)**
- Leveraged state-of-the-art **reinforcement learning** techniques, including **Deep Q-Networks (DQN)** and **Deep Deterministic Policy Gradients (DDPG)**, to empower a robotic system for autonomous top-down object manipulation

EXPERIENCE

- **Ayoka Systems** Arlington, US
Software Developer Intern (Summer) *May 2023 - Nov 2023*
 - Engineered end-to-end web solutions for CG labs, spearheading UI design, frontend implementation, and backend development using **Vue.js**, **.NET**, **C#**, and **Postgres**, driving a 40% boost in operational efficiency
 - Pioneered a **C#**-based data import tool for ITT, fostering **20%** sales growth in South American and Asian markets
- **Ather Energy Private Limited** Bangalore, India
Data Analyst *Sep 2021 - Jun 2022*
 - Successfully transitioned the **Electric Vehicles Fleet Management** platform called Aikaan from **Docker** to **Kubernetes** on the **Google Cloud Platform**, realizing a notable **50%** reduction in both compute and storage resources
 - Scaled **MongoDB** using replicaset and shards in **Kubernetes** to meet high throughput and latency requirements for data access in **Golang** based **microservices**
 - Enacted an **EMQTT** cluster for reducing **E-Bikes** drops on the platform, increasing device retention count from **10k to 100k** and reducing **OTA** upgrades deployment time by **70%** on the E-Bikes
- **Aikaan Labs Private Limited** Bangalore, India
Data Scientist *Mar 2020 - Aug 2021*
 - Constructed a universal search feature by storing platform data in **Elasticsearch** through **Logstash** and utilized **Golang** for querying, resulting in a **30%** reduction in access and debugging time
 - Contributed to the development of a report generation feature, enabling the retrieval of device metrics such as CPU, memory, and disk from **InfluxDB**
 - Executed real-time alerts utilizing **Kapacitor** and **TICK** stack in case of anomalies, and incorporated the functionality to schedule reports via email
- **Cognizant Technology Solutions** Chennai, India
Project Associate *July 2019 - Mar 2020*
 - Enhanced the Liberty Insurance Claim Process through the implementation of data pipelines using **Maven** and **Java**, resulting in a remarkable **60%** reduction in the time required to access customer data

SKILLS SUMMARY

- **Languages:** Golang, Python, C++, C#, Java, JavaScript, TypeScript, SQL, Bash
- **Frameworks:** .NET, Scikit, NLTK, Keras, NodeJS, ReactJS, VueJS, TICK, ELK
- **Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, InfluxQL