Sakthi Swarup V K

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Results-driven Data Science graduate with expertise in machine learning, analytics, and programming. Skilled in Python, SQL, and data modeling to solve complex problems, particularly in health tech. Experienced in visualization, automation, and big data tools to drive innovation and process optimization.

# EDUCATION

**University of Massachusetts Dartmouth,** Dartmouth, Massachusetts

Master of Science in Data Science Expected May 2025

**Jain University,** Bangalore, Karnataka India. August 2021

Bachelor of Technology in Information Science

# EXPERIENCE

# University of Massachusetts Dartmouth. September 2024 – December 2024

## Graduate Student Assistant

* Assisted with research activities, including data collection, literature review, and data analysis.
* Applied data science techniques to organize datasets, optimize workflows, and enhance study efficiency.
* Provided technical support for classroom tools, troubleshooting issues, and improving learning experiences.
* Strengthened analytical, problem-solving, and technical communication skills through hands-on research work.

**Carelon Global Solution, Bangalore, India** September 2021 – August 2023

## Associate Software Engineer

*Carelon was born out of one of the largest health technological companies in the U.S which is Elevance health.*

* Worked in a team of five to ensure seamless health insurance enrollment and data integrity on the IE3 platform.
* Developed an automation tool to streamline enrollment verifications, significantly improving efficiency and system performance.
* Received multiple Impact Awards for successfully completing high-performance regression testing within tight timelines, ensuring product stability.
* Collaborated with developers and stakeholders to align project requirements, proactively addressing system challenges to enhance platform reliability.

## Knolskape Solutions Private Limited, Bangalore, India July 2019

**Intern**

* Participated in a 15-day internship to gain exposure to the technology industry and web development.
* Worked with various web technologies, learning about web portal design and implementation.
* Observed industry practices, enhancing my understanding of software development processes and IT workflows.

# SKILLS

**Programming languages:** Python, Java, SQL, C, C++, HTML, CSS, JavaScript.

**Tools:** Visual Studio, Mainframe, MySQL, Tableau, GitHub.

# ACADEMIC PROJECTWORK

#### **UMass Dartmouth**, Dartmouth, Massachusetts

**Title: Machine Learning and Real-Time Data: A Fusion for Crypto Predictions**  
 September 2024 – Present

* Developed a real-time cryptocurrency prediction system using CoinGecko API, integrating LSTM neural networks and ARIMA models for price forecasting.
* Designed an interactive dashboard with React and Chart.js for real-time trend visualization.
* Deployed the system on AWS cloud infrastructure, ensuring scalability and high availability.
* Improved market trend predictions through exploratory data analysis, feature engineering, and predictive modeling.

# UMass Dartmouth, Dartmouth, Massachusetts.

# Title: From Data to Insights: Examining Fatal Police Shootings in the U.S.

# September 2023 – December 2024

# A data analysis project on U.S. fatal police shootings, analyzing disparities and patterns using the Washington Post database and statistical methods like K-Means Clustering and Logistic Regression. Proposed policy reforms and community strategies to reduce incidents, focusing on police training and mental health support.

**Jain University,** Bangalore, Karnataka India. August 2020 – June 2021

**Title:** Multimedia streaming and sharing application, Jain University, Bangalore

* Developed an android application to share and stream multimedia between android devices.
* Involved in end-to-end development of the application from the stages of brainstorming through implementation, testing and deployment.

**Clubs & Organization:**

**UMass Dartmouth,** Dartmouth, Massachusetts**.** January 2024 - Present

# Mentor & Member, Big data club.

* Led workshops and mentored members in big data tools and analytics, fostering technical growth and hands-on learning.
* Organized brainstorming sessions to generate innovative data-driven ideas, encourage peer collaboration, and solve real-world problems.
* Facilitated team-based projects, where members helped each other troubleshoot challenges, refine models, and enhance analytical skills.
* Hosted discussions on emerging trends in big data, keeping members updated on industry advancements and best practices.