Saurav Kumar

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Education

University of Nevada, Las Vegas   Las Vegas, NV
Bachelor of Science in Mathematics, GPA: 3.6   Fall 2024
Bachelor of Arts in Computer Science

College of Southern Nevada   Las Vegas, NV
Associate of science, High Honors, GPA: 3.9   Fall 2022

Relevant Coursework: Machine Learning, Data Mining, Database Management, Information Systems, Data structures & Algorithms, Statistical Methods I & II, Mathematical Statistics, Linear Algebra, Calculus I, II, & III, Discrete Mathematics

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Experience

Data Structures Tutor/TA   2023-2024
Academic Success Center, UNLV   Las Vegas, NV

- Tutored 30 CS students weekly in coding assignments and review sessions.
- Helped students grasp complex computer science concepts like pointers, object-oriented programming, Big O notation, and low-level programming improving critical problem-solving skills.
- Courses tutored include Computer Science 1 (C++ basics & arrays), Computer Science 2 (OOP, pointers, linked lists, stacks, queues), Data Structures and Algorithms (Big O notation, trees, graphs, HashMap), and x86 Assembly Language/MIPS, helping improve grades and completion rates.

Manager   2021 - Present
Sam Smoke Shop   Las Vegas, NV

- Maximized sales and customer loyalty by optimizing store operations, resulting in an 18% increase in revenue over 3 years.
- Managed daily store operations for 30 hours a week while earning my associates of sciences(honors).
- Monitored weekly sales and inventory data of 100+ SKUs to ensure sufficient supply of product, resulting in a 15% reduction in restocking fees.

Sgt. Kumar, Infantry Assaultman   2015 -2021
United States Marine Corps

- Managed training and exercise regimens of multiple squads with over 4,000 hours of tactical preparation resulting in successful operations both in and out of the country.
- Approximately 3 years of cultivating and improving morale as well as mentoring 20+ junior marines resulting in multiple promotions and personal awards.
- Over 3 years, led 30+ teams under direct command and conducted successful missions under high physical and mental pressure.

Leadership & Activities

- Took the leading role as programmer and presenter in a population prediction project in a computational linear algebra course using C++ and matrices.
- As lead programmer in senior-level courses, built machine learning models utilizing Decision trees, Random Forest, KNN, Linear/Logistic Regression, Neural networks (TensorFlow) with an overall accuracy rating of 95%. Multiple algorithms were built from scratch for in-depth understanding.
- While in US marines, held leadership billets such as Non-commissioned officer, Squad leader, Team leader, and company guidon/flag bearer.
- Volunteered to conduct over 30 funerals with military honors as the senior Non-commissioned officer.

Skills

Technical: C/C++, Python, SQL, Java, R, MATLAB, HTML, CSS Microsoft Office certified
Frameworks/ Developer Tools: google colab, NumPy, Pandas, seaborn, Scikit-learn, TensorFlow, keras, Linux, Git
Language: Fluent in English, Punjabi, and Hindi