



# Nripen Kumar

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## Summary

AI/ML Enthusiast passionate in developing scalable, distributed systems and intelligent applications. Experienced in Python, JavaScript, SQL, and working within Unix/Linux environments. Proficient in machine learning, NLP, and data analytics using frameworks like TensorFlow and PyTorch. Adept at software design, algorithms, and cloud platforms such as Google Cloud. Passionate about building impactful solutions through data-driven decision-making and collaborative engineering.

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## Education

<b>CGC University, Mohali</b> B.Tech in AIML ◦ CGPA: 8.4/10.0	2023 – 2026
<b>DAV College, Sri Ganganagar</b> B.Sc in Non-Medical ◦ Percentage: 63.94%	2020 – 2023
<b>Senior Secondary School-Army Public School</b> 12th in Non-Medical ◦ Percentage in 12th: 76.4%	2020
<b>Secondary School-Army Public School</b> ◦ Percentage in 10th: 73.8%	2018

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## Projects

### Virtual Career Advisor

- Built an AI-powered career guidance tool using NLP and predictive analytics
- Reduced query processing time by 20% through workflow optimization
- Integrated multiple payment options including UPI, cards, and wallets

### Handwritten Digit Recognition (MNIST)

- Developed a mobile-friendly web app with real-time prediction using HTML5 Canvas
- Built a CNN model in PyTorch achieving 98.8% accuracy on MNIST for digit classification
- Visualized model performance through accuracy metrics (train: 99.2%, val: 98.8%, test: 98.5%)

### Medical Cost Personal Datasets EDA

- Conducted exploratory data analysis on healthcare cost datasets
- Improved prediction accuracy by 15% using Python and SQL
- Created interactive dashboards with PowerBI and Tableau for business insights

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## Internships

<b>Tamizhan Skills, RISE Internship Program</b>	June 2025 – July 2025
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### Machine Learning & AI Domain:

- Built ML/AI models for Spam Detection, Digit Recognition, Loan Prediction, and Stock Forecasting

### UI/UX Design Domain:

- Designed web and mobile apps (Portfolio, Banking, E-learning), Real Estate and Job Portal platforms

### Web Development Domain:

- Created responsive websites and apps: Portfolio, Landing Page, To-Do list, and E-Commerce

<b>Wayspire Edtech Pvt Ltd, Machine Learning Intern</b>	Aug 2024 – Oct 2024
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- Developed AI-driven automation solutions for compliance monitoring using supervised and unsupervised learning
- Applied SVM, linear regression, and data compression techniques to optimize efficiency
- Designed and optimized models with Python, SQL, TensorFlow, improving scalability and performance by 30%

<b>Maangler, Python Programming Intern</b>	April 2024 – Aug 2024
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- Designed AI dashboards for marketing analytics and user engagement
- Improved software performance by debugging and optimizing test scripts
- Developed predictive models that increased user engagement by 20%

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## Technical Skills and Tools

**Programming Concepts:** Data Structures and Algorithms, Scalable System Design, Object-Oriented Programming (OOP)  
**Programming Languages:** Python, C++, C, Java, SQL, R, HTML, CSS, JavaScript  
**Machine Learning and AI:** TensorFlow, PyTorch, NLP, Scikit-Learn, Customer-Centric AI Solutions, AI-driven automation  
**Web Technologies & Tools:** HTML, CSS, JavaScript, API Development, Tableau, Hadoop, VS Code, PowerBI  
**Database Management:** MySQL, MongoDB, Data Query Optimization  
**Cloud Computing & Version Control:** Google Cloud, AWS, Azure, Git, GitHub

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## Soft Skills and Abilities

- Analytical Thinking & Problem-Solving Approach
  - Team Coordination & Delegation
  - Leadership & Impactful Innovation
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## Certifications

- Training and Internship in Machine Learning with Wayspire
- Training and Internship in Python with Maangler
- Data Structures And Algorithms Using C++ with Google: Developer Student Clubs & Amazon: AWS Community Builders
- Machine Learning and Image Processing with NASSCOM
- Principles of Generative AI & Artificial Intelligence Primer with Infosys
- PowerBI Workshop with OfficeMaster