

SOHAN KUMAR SHAH

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PROFESSIONAL SUMMARY

Final-year Computer Science student passionate about AI, Data Science, and Machine Learning. Experienced in developing projects in generative AI, computer vision, and predictive analytics using modern tools and frameworks. Seeking an internship to apply technical knowledge and creativity in solving real-world problems through data-driven solutions.

EDUCATION

B.Tech in Computer Science

Kalinga Institute of Industrial Technology

Key coursework: Machine Learning, Data Structures, AI Fundamentals, Database Systems

2022–2026

CGPA: 7.72/10

12th Grade - DAV Higher Secondary School, Nepal (CBSE)

2020–2022

72.16%

10th Grade - Janak Memorial Secondary School, Nepal (NEB)

2020

91%

KEY PROJECTS

AI Coding Assistant with Integrated Compiler

[GitHub](#)

- Engineered an AI assistant using LLaMA 3 via Groq API with memory persistence and context handling
- Integrated multi-language compiler with real-time syntax highlighting and error detection
- Implemented caching techniques to reduce API calls and improve performance by 45%

Computer Vision-Based Safety Compliance System

[GitHub](#)

- Developed a real-time helmet detection system achieving 92% accuracy using CNN models
- Optimized model for edge deployment with TensorFlow Lite for real-time inference

Predictive Analytics: NEPSE Stock Market Forecasting

[GitHub](#)

- Built ensemble ML models for stock movement prediction with 83% accuracy
- Implemented ARIMA and Prophet models for time-series forecasting with retraining pipelines

Data Pipeline: Amazon Price Intelligence System

[GitHub](#)

- Created automated data extraction pipeline with scheduled scraping and anomaly detection
- Designed interactive Power BI dashboards for price trend visualization and analysis

TECHNICAL SKILLS

AI & Machine Learning:

TensorFlow, Scikit-learn, LLMs (LLaMA 3), Computer Vision, NLP, Predictive Modeling

Data Science & Analytics:

Statistical Analysis, Exploratory Data Analysis, Feature Engineering, Hypothesis Testing, Time Series Analysis, Data Visualization, Regression/Classification Methods

Programming & Data:

Python, SQL, Java, HTML, CSS, JavaScript, Pandas, NumPy, Matplotlib, SciPy, Power BI, MySQL

Tools & Platforms:

Git/GitHub, AWS (basics), VS Code, PyCharm, Google Colab, Linux, Jupyter Notebooks

CERTIFICATIONS

- Machine Learning (Andrew Ng - Coursera)
- AWS Academy Machine Learning Foundations
- Data Analytics Essentials (Microsoft + LinkedIn)
- Databases & SQL for Data Science
- Data Visualization (Tata)

LANGUAGES

- Nepali:** Native Proficiency
- Hindi:** Limited Working Proficiency
- English:** Limited Working Proficiency

ADDITIONAL INFORMATION

Interests: AI Research, Open-source Contribution, Hackathons, Technical Writing, Traveling, Cooking