

SUMIT KUMAR JAISWAL

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OBJECTIVE

Final year B.Tech CSE student specializing in Data Science & Machine Learning, with hands-on experience in predictive modelling, NLP, and applied AI agent development (LLMs, RAG, LangChain/LangGraph). Skilled in business intelligence, data structures & algorithms, analytics, and data visualization, with proven organizational abilities honed through leading student-led initiatives.

SKILLS

TECHNICAL

- Languages:** C/C++, Python, HTML, JS, CSS
- Databases:** SQL, DBMS
- Tools/Platforms:** MySQL, GitHub, Bootstrap, MS PowerPoint, MS Word, MS Excel, Canva
- Libraries & Frameworks:** Scikit-learn, Pandas, NumPy, Matplotlib
- Generative AI & LLMs:** LangChain, LangGraph, RAG (FAISS, HuggingFace embeddings), Prompt Engineering, Vertex AI
- Machine Learning & Deep Learning:** Classification, Regression, Clustering (Basics), Feature Engineering, Feature Selection, Sentiment Analysis, Model Evaluation (MAE, RMSE, R²), EDA

Data Analysis & Visualization: Power BI, Tableau, Matplotlib, Seaborn, Interactive Dashboards, Trend Analysis, Reporting & Presentation

SOFT

- Leadership, Team Building & Teamwork
- Adaptability, Inquisitiveness and Management
- Strategic Planning & Implementation
- Observation and Decision Making
- Problem-Solving, Analytical and Critical Thinking
- Research and Technical Writing
- Presentation & Public Speaking Skills
- Creativity and Innovative Thinking
- Client/Stakeholder Communication Skills

ACHIEVEMENTS

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- 1st Prize** – Hackathon, Yuva Fest | Lamrin Tech Skills University | 2023
- Participation** – National Level Hackathon, IBM ICE | KARE, Madurai | 2023
- Runner-up** – Web Development Competition (Byte Battle) | PTU Jalandhar | 2024
- 2nd Runner-up** – Ideathon cum Internal Hackathon SIH 2025 | Lamrin Tech Skills University Punjab | Oct. 2025
- 1st Prize** – Skit, Inquilab Festival | Nawanshahr | 2023
- Runner-up** – University Level Ideathon | Sept 2024
- 1st Prize** – Ideathon, 54th ISTE National Annual Convention & Yuva Kaushal Utsav | 2025

CERTIFICATIONS

- AI-ML with Data Science Workshop** – IIT Ropar | Issued Feb 2024
- Data Analytics Job Simulation** – Deloitte Australia (Forage) | Issued Jun 2025
- Google Analytics Certification** – United Latino Students Association | Issued July 2026 · Expires July 2027
- Get Started with Microsoft Data Analytics** – Microsoft | Issued Nov 2025
- Career Essentials in Generative AI** – Microsoft & LinkedIn | Issued May 2025
- Prompt Design in Vertex AI Skill Badge** – Google | Issued Jul 2025
- Google Cloud Data Analytics Certificate** – Google Cloud | **Skill Badge** | Issued July 2026
Credential-- <https://www.credly.com/badges>
- Dive Deeper into Google Analytics 4 Data and Reports** – Google | Issued Oct 2025

EDUCATION

LAMRIN TECH SKILLS UNIVERSITY PUNJAB

B.Tech | CSE | Data Science — CGPA: 8.5+/10 (Above 85%)

2023 – 2027

MANAS CONVENT SCHOOL, MUGHALSARAI

Intermediate | PCM | CBSE — 2022–2023

Matriculate | CBSE — 2021–2022

2021 – 2023

LANGUAGES

English | Hindi

EXPERIENCE

Founding Member — VIVIDH (Social Media Club), USET, LTSU

Content Writer Jan 2024 – May 2025

- Created content for university social media.
- Contributed to establishing club structure and guidelines.

Editor & Proofreader May 2025 – Present

- Editing and proofreading content for official posts.
- Ensuring accuracy, clarity, and consistency.

Student Coordinator — NSS (USET Department) Jan 2025 – Present

- Coordinating NSS activities and student participation.
- Managing communication and event execution.

PROJECTS

AUTOSTREAM – CONVERSATIONAL AI AGENT | LangChain, LangGraph, FAISS, HuggingFace, Python

- Designed and built a stateful conversational AI agent for a SaaS video-editing platform, handling pricing/policy queries, high-intent user detection, and structured lead capture.
- Implemented intent classification with confidence scoring and a Retrieval-Augmented Generation (RAG) pipeline using FAISS vector search and HuggingFace embeddings; built multi-turn lead capture with email validation, duplicate prevention, and mock CRM API integration.
- Designed a conceptual WhatsApp Business API integration for real-time, multi-turn conversations via webhooks.

AIR QUALITY PREDICTIVE MODEL | ML Predictive Model, Python | 94% Accuracy

- Developed a machine learning model to predict Air Quality Index (AQI) using Decision Tree, Random Forest, and Linear Regression techniques.
- Trained on organic CPCB data, considering 8 pollutants and 6 meteorological factors for accurate predictions.

BREAST CANCER PREDICTION MODEL | ML Predictive Model, Python | Ongoing | 79% Accuracy

- Developing a Breast Cancer Predictive Model using machine learning and deep learning algorithms, including VGG16 and Sigmoid.
- Achieved 79% accuracy with Sigmoid and continuously improving performance by experimenting with advanced deep learning techniques.

SPEECH THERAPY PLATFORM FOR AUTOMATED DIAGNOSIS | Python, NLTK | Ongoing

- Designed a prototype platform to connect certified speech therapy doctors and provide AI-powered automated diagnostic tests for speech accuracy assessment.

HATE SPEECH DETECTION MODEL | Python, NLP | 97% Accuracy

- Built a Hate Speech Detection model to identify offensive language in tweets using NLP techniques.
- Preprocessed text (stemming, stopword removal), applied CountVectorizer, and trained a Decision Tree classifier, achieving high accuracy and F1-score.

SMS SPAM CLASSIFICATION | Python, SVM, Naive Bayes | 93% Accuracy

- Developed an SMS Spam Classification model to identify messages as spam or ham.
- Implemented text pre-processing, TF-IDF feature extraction, and trained models (Naive Bayes and SVM) for real-world use.

PORTFOLIO WEBSITE | HTML, CSS, JavaScript | Hosted on Netlify

- Designed and developed a personal portfolio website showcasing projects, skills, and achievements.
- Implemented responsive UI/UX using HTML, CSS, and JavaScript for smooth navigation and interactions.
- Live Link: [sumit kumar jaiswal portfolio](#)

MORTALITY PREDICTION MODEL | Python, ML Algorithms (RF, DT, LR)

- Built a machine learning model to predict mortality based on tobacco usage patterns and related factors.
- Performed data cleaning, feature engineering, and visual analysis to understand correlations and trends.
- Trained and evaluated multiple models (Random Forest, Decision Tree, Linear Regression) to identify the best performer.

LEADERSHIP & EXTRACURRICULAR

- **Head of Finance** – SRIJANAM Organizing Committee, USET, LTSU (2024–2025): Managed budgeting, expense tracking, and fund allocation for fest events.
- **Treasurer** – Cultural Club, USET, LTSU (2024–Present): Handled club finances and supported event planning and logistics.
- **Member** – Coding Nexus Club, USET, LTSU (2023–Present): Participated in coding workshops, competitions, and peer learning.

Declaration: I confirm that the details shared are accurate and reflect my professional journey honestly.