SAHEJPREET KAUR

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Education

VIT Bhopal University   **Sep 2022 – May 2026**
Bachelor of Technology in Computer Science and Engineering - 8.52 CGPA   *Bhopal, Madhya Pradesh*

Technical Skills

Programming Languages : Python, Java, C, HTML/CSS, JavaScript, SQL, Latex
Technologies/Frameworks: MYSQL, Pycharm, Jupyter Notebook, Google Collab, Figma, Github, Wordpress

Projects

IntelliDraft: AI-powered business document generation | *FastAPI, React, Gemini API, SQLite*   **Nov 2025**
- Developed a full-stack AI-enabled document generation platform using FastAPI and React, enabling authenticated users to create, refine, and export well-structured .docx/.pptx business documents.
- Integrated Large Language Model (Gemini API) for intelligent content authoring, including outline generation, context-aware creation, and iterative refinement with feedback tracking and revision history.
- Implemented secure authentication and persistent data management using JWT-based login and database-backed project storage, ensuring smooth end-to-end flow from project creation to document export.

GANShield: GAN-powered Fraud Shield | *Python, TensorFlow, scikit-learn, Streamlit*   **Mar 2025**
- Engineered a robust fraud detection pipeline using Generative Adversarial Networks (GANs) to synthesize over 10,000 realistic fraudulent transaction samples, reducing class imbalance by 95%.
- Validated model performance rigorously via cross-validation, consistently achieving an impressive AUC above 0.90 on highly imbalanced real-world credit card transaction datasets, demonstrating robust accuracy.
- Developed interactive Streamlit dashboards to comprehensively visualize synthetic data distributions, model performance metrics, and classification outcomes, significantly enhancing insights and decision-making.

Rice Plant Disease Detection using GenAI | *Python, TensorFlow/PyTorch, Google Collab*   **Jan 2025**
- Designed and successfully deployed a highly accurate AI system for early detection of rice plant diseases using GenAI and advanced image processing, improving diagnostic accuracy from 20% to 96%.
- Optimized classification response times by 30%, benefiting over 500 farmers across multiple regions.
- Trained advanced deep learning CNN models on augmented image datasets to accurately detect multiple rice leaf diseases, significantly supporting proactive crop management, early intervention, and yield protection.

Experience

Student Developer: ISABE– International Society of Air Breathing Engines   **Dec 2024 – Sep 2025**
Machine Learning Engineer
- Designed and implemented an ML-based research paper management system to significantly boost document retrieval efficiency by 40% and reduce manual classification time by 30% through intelligent categorization, and also built an interactive chatbot to search papers using title, author name, and other information.

Winter Internship Technical Training Program at India Space Lab   **Dec 2024 – Jan 2025**
Rank-576
- Explored advanced drone architectures and astronomy tools to innovate next-generation UAV technologies, improving flight stability by 30% and data acquisition accuracy by 25% through enhanced onboard sensing.

Achievements

ICPC:2024: Secured Ranks 1171 (Amritapuri Region) and 1198 (Kanpur Region) , Achieved Top 20 All-Women Team status in India and Ranked 1st among All-Women Teams from VIT Bhopal University.
EricssonEdge Program : Selected as one of 500 for excellence in innovation, aptitude, Solving DSA.
Adobe GenSolve: Selected as one of the finalist (top 5 percentile) in Machine Learning hackathon.
CodeKaze: Ranked 19,944 out of 140k contestants, honing DSA skills for effectively solving problems.
Intra-University Mathematics Model Making: 2nd place for work in geometry, calculus and graph-theory.

Co-Curricular

Software Development Club   **Dec 2023 – Jan 2025**
Sub-Manager
- Led team coordination and developed comprehensive social media strategies, effectively managing content creation, precise audience targeting, and campaign, which resulted in a 30% increase in engagement.

E-Cell   **May 2023 – Nov 2024**
Social Media and Operation Coordinator
- Led digital campaigns and event promotions across multiple online platforms, increasing entrepreneurial engagement by 20% through strategic content, targeted outreach, and continuous audience interaction.

Additionals

Languages: English, Hindi and Punjabi - Proficient in reading, writing, and speaking all three.