Shivani Bhandari

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Education

UIET, Panjab University **Jul 2021 - Jun 2025**
*Bachelor of Engineering in Electronics and Communication Engineering (**7.83/10.00 CGPA**)* *Chandigarh*

Gian Jyoti Global School **April 2017 - April 2020**
*Senior Secondary **(88.20%)** & Secondary **(92.00%)*** *Mohali, Punjab*

Skills

Hard Skills: C++, Javascript, Python, Machine Learning(Advanced), CNN, NLP, LLM, Flask, Azure AI, Spark, Matlab
Frameworks: TensorFlow, Scikit, Matplotlib, PyTorch, Spark ML, XGBoost, Apache MXNe, Keras, OpenCV
Developer Tools: VS Code, Eclipse, Google Cloud Platform
Visualizing Tools: Looker Studio, Tableau, Microsoft Power BI
Database Management: MongoDB, MySQL, Advance Excel, Hadoop
Soft Skills: Presentation, Delegation, Resilience, Stay updated

Work Experience

Design Innovation Center (MDaRT),UIET Panjab University **Jan 2024 - June 2024**
ML/AI Intern *Chandigarh*

- Pioneered an **RCNN-based machine learning model** for **dental furcation image detection and classification**, achieving **92% accuracy** through veracious data cleaning, innovative feature engineering, and precise hyper parameter tuning.
- Seamlessly integrated the model with **Flask and React**, crafting a user-friendly interface for 100+ dental professionals and expediting diagnosis by 50%.

Amtron with North Eastern Council (NEC),Govt of India **Jul 2023 – December 2023**
Visual Analytics Specialist *Link*

- Tailored a **Project Monitoring Dashboard**, collaborating with 5 engineers and medical professionals to craft **20+ data visualization tools**, ensuring **99.5% data accuracy and 30% increase in stakeholder engagement**.
- Streamlined data presentation, reducing analysis time by 40% and enhancing decision-making for 500+ users.

Projects

Document Scanning App **Link**

- Spearheaded a medical report scanning system that achieved 99% accuracy in text extraction, resulting in error-free patient records and enhanced patient care.
- Implemented Anomaly Detection Module, identifying 90% critical anomalies, enhancing patient care. Automated data entry, reducing manual effort by 70%, liberating staff for high-value tasks.

Heart Disease Prediction **Link**

- Developed an SVM-based heart disease prediction model with 95% accuracy, utilizing a sigmoid kernel for optimal performance.
- Deployed as a Flask API on Thunder Client, providing a simple and intuitive input system for instant risk predictions, enabling seamless integration with various applications and facilitating informed healthcare decisions.

Weapon Detection **Link**

- Engineered a cutting-edge weapon detection system using YOLOv3 and OpenCV; accomplished a 95% detection accuracy and enhanced public safety measures by reducing false positives by 20%.
- Exploited transfer learning to slash training time by 80% and boost performance by 95%. Unveiling a cutting-edge system that swiftly detects weapons and alerts authorities.

Recognitions & Leadership Positions

- Contributed to **GSSoC'24**, earning a 140 points badge.
- Earned **"Microsoft Learn Cloud Skills Challenge at Build 2024"** badge, developing practical cloud skills through interactive labs and challenges.
- Acquired Rank 10th in **Consultathon 4.0** by BITS Pilani, K.K. Birla Goa Campus.
- As **ML Sub-Head** for **GDSC UIET, Chandigarh**, orchestrated a team of 10 members, orchestrating 5 workshops and 2 hackathons, directly engaging over 100 participants.
- Graphic Designer Head for **GOONJ'23: FEST of UIET**, Panjab University, Chandigarh.

Key Courses Taken

Computer Science: Computer Architecture & Organization, Design & Analysis of Algorithms, Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Machine Learning
Data Science & AI: Statistical Inference, Optimization, Reinforcement Learning, Multi-modal Deep Learning Mathematics: Number theory & Linear Algebra, Probability theory & Random processes, Discrete Mathematics, Multivariate Calculus, Differential Equations, Optimization
MOOCs & Miscellaneous Certifications: Deploy applications with Azure DevOps (Microsoft, 2024); Building an LLM and RAG-based chat application using AlloyDB AI and LangChain (Google developers, 2024); Machine Learning Specialization (Coursera, 2022); Python Fundamentals (Great Learning, 2021)