SHIVANI BHANDARI

📞 +91 7530815555   ✉ Shivanibhandari767@gmail.com   in Shivani-Bhandari   ⊙ shivani767   🌐 shivani

Education

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

Skills

Languages & Frameworks: C++, Java, Python, C, React, Javascript, Typescript, React, Node.js, Flask
Developer Tools & Operating System: Git, Github, VS Code, Eclipse, Google Cloud Platform, Linux, SaaS, Windows
Technical Acumen: Machine Learning(NLP, RNN, CNN), Microsoft Azure, Looker Studio, Microsoft Power BI
Database Management: RDBMS, MongoDB, MySQL, PostgreSQL, Advance Excel, Hadoop

Work Experience

Semiconductor Laborartory, Mohali   Jun 2024 - Jul 2024
Summer Intern
- Spearheaded wet etching processes with SEZ01 tool, refining techniques to boost efficiency and revolutionizing process parameters for optimal results.

Wrappid, Kolkata   Apr 2024 - Jul 2024
Software Developer
- Developed high-performance C++ modules, boosting application speed by 30% and implemented efficient algorithms, slashing computational complexity by 50%.
- Refactored legacy code with seniors, ensuring seamless user experience.

Design Innovation Center (MDaRT),UIET Panjab University, Chandigarh   Jan 2024 - June 2024
ML/AI Intern
- Engineered an RCNN-based model for dental furcation detection, yielding 92% accuracy via data refinement, ingenious feature sculpting, and precise hyperparameter calibration.
- Integrated RCNN model with Flask and React, revolutionizing dental diagnosis with precision and accuracy.

PGIMER, Govt of India, Chandigarh   Jan 2023 - Mar 2024
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.

Envinova Smartech, Chandigarh   Feb 2023 - Jul 2023
SDE-I
- Transformed and launched a captivating website for Smart Solar Hub, amplifying user engagement seamlessly.
- Illuminated innovative features, amplifying brand interactions by 125% through captivating experiences.

Projects

Document Scanning App   **Link**
- Spearheaded patient care with 99% accurate medical report scanning, processing 10,000++ reports monthly, flawlessly.
- Transformed patient care by deploying Anomaly Detection Module, pinpointing 90% critical anomalies, and slashing manual effort by 70%.

Heart Disease Prediction   **Link**
- Developed an SVM-based heart disease prediction model with 95% accuracy, utilizing a sigmoid kernel for optimal performance and launched Flask API on Thunder Client, revolutionizing healthcare decisions.

Weapon Detection   **Link**
- Forged a trailblazing weapon detection system with YOLOv3 and OpenCV, catapulting accuracy to 95% and slashing 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.

Ecommerce Website   Link
- Engineered a sleek UI with a 5-point slider, accelerating navigation by 30% and supercharging user experience with 20% faster filtering and 15% increased engagement.

Smart-Semiconductor-Fabrication-Simulator   Link
- Architected and crafted a high-performance C++ system, simulating 20 devices synchronously.
- Optimized algorithmic complexity and memory allocation, boosting performance by 30% and meeting project needs.

Image-Classifier   Link
- Classified 500+ images/min with 95% accuracy using Azure and OpenCV.
- Unleashed cutting-edge computer vision, turbocharging image classification within 50ms, and illuminating insights.

Recognitions & Leadership Positions

Contributed to GSSoC'24, earning a 140 points badge.

Conquered the Microsoft Learn Cloud Skills Challenge at Build 2024, tackling 12 interactive labs and mastering 5 critical cloud skills in 6 weeks.

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

Data Science & AI: Statistical Inference, Optimization, Reinforcement Learning, Multi-modal Deep Learning Mathematics: Number theory & Linear Algebra, Probability theory & Random processes, Multivariate Calculus

MOOCs & Miscellaneous Certifications: Deploy applications with Azure DevOps (Microsoft, 2024); Machine Learning Specialization (Coursera, 2022); Python Fundamentals (Great Learning, 2021)