



SHIVANI

SOFTWARE DEVELOPER

CONTACT

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Shivani767

SKILLS

Programming Languages:

- C++
- Python
- Java

Development Frameworks:

- Javascript
- Typescript
- React
- Node.js
- Flask

Developer Tools & Operating System:

- Skilled in utilizing Git and Github for version control, and proficient in VS Code
- CI/CD tooling
- Build and deploy pipelines (Jenkins/TeamCity)
- Docker Container Expert
- Proficient in the OSI model, TCP/IP protocol suite, and socket programming

Cloud Platforms:

- Microsoft Azure,
- Google Cloud Platform
- Shell scripting
- PowerShell

Machine Learning & AI:

- TensorFlow
- Scikit
- Matplotlib
- PyTorch
- Spark ML
- XGBoost
- Apache MXNe
- NLP, RNN, CNN, LLM

WORK EXPERIENCE

Semiconductor Laboratory, Mohali

2024/06 - 2024/07

Summer Intern

- Spearheaded wet etching process transformation on SEZ01 tool, pioneering innovative techniques to enhance efficiency and redefine process parameters for exceptional outcomes.
- Leveraged SDE skills to design and implement automated solutions, streamlining process control and data analysis, and collaborating with cross-functional teams to integrate software and hardware systems.

Wrappiod, Kolkata

2024/04 - 2024/07

SDE

- Turbocharged application performance by developing high-performance C++ modules, unleashing significant speed gains and implementing cutting-edge algorithms that dramatically simplified computational complexity.
- Collaborated with seniors to revamp legacy code, ensuring a seamless and intuitive user experience that exceeded expectations and set new standards for quality and reliability.

Design Innovation Center (MDaRT), Chandigarh

2024/01 - 2024/06

AI/ML Developer Intern

- Revolutionized dental diagnosis by crafting a trailblazing RCNN-based model that detects furcation with uncanny precision, harnessing the power of refined data and ingenious feature engineering.
- Transformed the dental landscape by seamlessly integrating the RCNN model with Flask and React, unleashing a precision-driven solution that redefines the boundaries of accuracy and reliability.

PGIMER, Govt of India, Chandigarh

2023/01 - 2024/03

Dashboard Developer

- Built a cutting-edge Project Monitoring Dashboard, teaming up with a diverse team of engineers and medical professionals to create intuitive data visualization tools.
- Boosted stakeholder engagement and strengthened data integrity by refining data visualization tools, enabling stakeholders to navigate project performance with ease and accuracy.

PROJECTS

Document Scanning App

- Revolutionized patient care by developing a document scanning app that ensures medical reports are accurate and easy to process, resulting in enhanced patient care and outcomes.
- Streamlined the reporting process by creating a cutting-edge tool that identifies critical mistakes, boosting staff efficiency and allowing medical staff to focus on high-quality care.

Heart Disease Prediction

- Spearheaded the development of a cutting-edge SVM-based heart disease prediction model, leveraging a sigmoid kernel to optimize performance and drive accurate diagnoses.
- Successfully deployed the model as a Flask API on Thunder Client, empowering healthcare professionals to make informed decisions and revolutionize patient care.

Weapon Detection

- Forged a trailblazing weapon detection system with YOLOv3 and OpenCV, catapulting accuracy to unprecedented heights and slashing false positives.
- Exploiting transfer learning, training time was dramatically reduced, performance boosted, and a cutting-edge weapon detection system unveiled.

- Database Management:**
- RDBMS
 - MongoDB,
 - MySQL
 - Advance Excel
 - Big Data (HDFS, MapReduce, YARN)

- Data Analysis & Visualization:**
- Looker Studio
 - Microsoft Power BI
 - Tableau

ACHIEVEMENTS:

- Excelled in GSSoC, earning a prestigious points badge.
- Mastered the Microsoft Learn Cloud Skills Challenge, completing interactive labs and acquiring critical cloud skills.
- Secured a top rank in Consultathon by BITS Pilani, K.K. Birla Goa Campus.
- Led the charge as ML Sub-Head for GDSC UIET, Chandigarh, curating innovative workshops and hosting thrilling hackathons, inspiring numerous participants.
- Graphic Designer Head for GOONJ: FEST of UIET, Panjab University, Chandigarh.

Ecommerce Website

- A sleek UI was engineered, featuring a multi-point slider that significantly accelerated navigation and enhanced overall user experience.
- Filtering was supercharged, leading to notably faster results, and engagement was boosted, resulting in a more interactive experience.

Smart-Semiconductor-Fabrication-Simulator

- Designed and developed a high-performance C++ system, capable of simulating multiple devices in parallel, to deliver a realistic semiconductor fabrication experience.
- Successfully optimized algorithmic complexity and memory allocation, resulting in significant performance improvements and meeting project requirements.

Image-Classifier

- Spearheaded the development of a high-speed image classification system, leveraging Azure and OpenCV to deliver exceptionally accurate results with rapid processing capabilities.
- Revolutionized image classification with cutting-edge computer vision techniques, achieving lightning-fast processing times and unlocking profound insights.

“Harvest Insights” - Unveiling the Dynamics of Indian Agriculture

- Crafted a rich tapestry of Indian agricultural data, illuminating the intricacies of crop production, yield, and acreage across a sweeping timeline.
- Masterfully distilled a vast and complex dataset, leveraging expertise in data manipulation, cleaning, and visualization to unearth hidden patterns and trends in the agricultural landscape.

Project Monitoring Dashboard

- Designed and developed a project monitoring dashboard using Google Looker, Data Analytics, SQL, Hadoop, and Figma, ensuring high data accuracy and streamlined data presentation.
- Collaborated with a cross-functional team, under the mentorship of Dr. Mamta Juneja, and in partnership with the National Eastern Council of India, to create actionable insights, enhancing decision-making for stakeholders and reducing analysis time.

EDUCATION

2025/07 - **B.E(ECE): ECE**
2021/06 UIET Panjab University Chandigarh - Chandigarh
GPA aggregate upto 5th Semester : 3.32

CERTIFICATIONS

- Deploy applications with Azure DevOps (Microsoft, 2024)
- Implement a Data Streaming Solution with Azure Stream Analytics (Microsoft, 2024)
- Building an LLM and RAG-based chat application using AlloyDB AI and LangChain(Google Cloud, 2024)
- Microsoft Certified: AI Engineer Associate(Microsoft, 2023)
- Google Cloud Certified - Professional Data Engineer(Google Cloud, 2023)
- The Ultimate React Course 2023: React, Redux & More (Udemy, 2023)
- Introduction to C++ by New York University (NYU, 2022)