# DIPENSHU DEEP BHAT

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## SKILLS

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|---|---|
| Languages | Python, C, C++, Java, SQL, HTML, CSS |
| Artificial Intelligence | Supervised Learning, Unsupervised Learning, U-Net, Neural Networks, Genetic Algorithms, Reinforcement Learning, NLP, Generative AI, Image Processing |
| Software | Beautiful Soup, MONAI, NEAT, NumPy, OpenCV, Pandas, PyGame, PyTorch, SciKit-Learn |
| Soft Skills | Time Management, Problem-solving, Engaging Presentation, Leadership, On-site coordination. |

## PROJECTS

**Swin Transformer CNN Hybrid UNet** | Colon Cancer Segmentation
- Implemented a hybrid model combining **Swin Transformer** and **CNN** into a UNet for colon cancer segmentation.
- Aimed to achieve high segmentation accuracy by leveraging the strengths of both Swin Transformer and CNN architectures.
- Project Link

**Liver Segmentation** | Implementing U-Net
- Implementation of **U-Net** using **PyTorch**.
- Reads images and identifies the position of Liver with pixel perfect masking using U-Net and **MONAI**.
- Project Link

**NIFTY Stock Prediction** | LSTM based
- Developed an **LSTM** based model for predicting NIFTY stock prices.
- Implemented data preprocessing, feature engineering, and model tuning to enhance prediction accuracy.
- Project Link

**Autonomous Vehicle 2D Sim** | Using Reinforcement Learning (PyGame and NEAT)
- Developed a 2D simulation of an autonomous vehicle using **PyGame** and the **NEAT** modules.
- Implemented reinforcement learning techniques for the vehicle to navigate and avoid obstacles autonomously.
- Project Link

**AgroBot** | Chatbot for Agricultural help using OpenAI API
- Developed an agricultural chatbot using the **OpenAI API** to provide farmers with assistance on various agricultural topics.
- Implemented features for crop disease diagnosis, weather forecasting, and optimal farming practices.
- Project Link

## EXPERIENCE

**ML Developer** @ Qriocity Ventures (Present)
- Worked on multiple projects while handling explanations and code shipment.
- Completed more than 20 ML projects per month

**Club Co-Lead** @ AI Club SMVDU
- Mentored and guided more than 100 students from beginners to intermediate ML developers.
- Successfully conducted a 24hr ML hackathon.

## EDUCATION

**Shri Mata Vaishnodevi University**, *BTech in Computer Science and Engineering* — CGPA: 8.58 / 10 — May 2021 - 2025
**GATE 2024**, *CS* — Qualified — SCORE: 467

## Certificates

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|---|---|
| Data Science Internship Program | Nucleon in partnership wit IIT Jammu |
| Data Analysis with Python | FreeCodeCamp.org |

## Languages

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|---|---|
| English | Professional proficiency |
| Hindi | Native proficiency |
| Kashmiri | Native proficiency |