Bhargav Patki

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Experience

Tech Lead   **Feb 2023 – Mar 2024**
AI CLub, VIT   *Bhopal, India*

- Projects Info:- https://github.com/orgs/aiclubvitbhopal/repositories
- Led and deployed 4 new projects with the tech team using end to end ML pipelines and SDLC, having real world applications across agriculture, entertainment, logistics, Graphics and research.
- Guided team to use frameworks like PyTorch, TensorFlow, REST API, Jupyter, Django along with deployment.
- Coordinated with 9 teams across the club to organize events, competitions, and projects having audience of over 1000 Students and Faculty.

Data Analyst Intern   **Jun 2023 – Aug 2023**
IIM Udaipur   *Remote*

- Workdone at :- https://github.com/Bhargav-CS/InternAtIIM
- Attained 90% success in predicting judicial vacancy across courts in India, collaborating with PHD Scholar and mentor for designing and implementation of code.
- Led formatting, analysis and coding for 8 yrs of data consisting of over 3.5 Cr entries. Including mapping the data with summarized 7 Cr entries for judicial analysis.

Projects

Moments | *Python, Dlib, Django*   **Apr 2024 – Jun 2024**

- Designed a smart photo searching program that can search through big data of images and fetch users images using facial recognition and encoding technique based on deep learning.
- Created web app using *Django* and *OOPS* which reduces users search time for images by 70%.

Stock GRU | *Python, MatplotLib, Pandas, seaborn*   **Feb 2024 – Apr 2024**

- Developed a stock closing price prediction system which uses historical stock prices as input and predicts closing price using *GRU* achieving more than 90% accuracy in test data.
- Implemented visualization techniques using *MatplotLib, Seaborn and Pandas* achieving visualizations of Expanding mean, Expanding Standard Deviation, Moving Averages and time series.

Snake RL | *Python, PyTorch, Matplotlib, PyGame*   **Nov 2023 – Feb 2024**

- Programmed a PyGame-based snake game agent with user-controlled movements. Designed a DQN-based reinforcement learning model using PyTorch, achieving over 82% accuracy in autonomous decision-making.
- Created a helper function using *Matplotlib* to plot real-time progress graphs for the agent's rewards and scores during training.

Technical Skills

Languages: Python, C++, SQL, ROS(Ubuntu, WSL).
Lib/Frameworks: OpenCV, Django, Flask, TensorFlow, PyTorch, MatplotLib, Sci-kit, Pandas, Git.
Databases: PostgreSQL, Sqlite, MongoDB.

Education

Vellore Institute of Technology   **Aug 2021 – Aug 2025**
Bachelor of Technology in Computer Science and Engineering (GPA: 8.45 / 10)   *Bhopal, India*

Certifications

- J.P. Morgan - Software Engineering Job Simulation.
- IBM AI Engineering Professional Certification.
- NPTEL - Cloud Computing.

Co-curricular/Extracurricular

- Participation in daily DSA challenge, Amazon ML challenge, KAVACH, Amazon HackOn, Lions Hackathon.
- Beginner in 3D animation, 3D modeling, Unreal Engine along with experience in using Figma and Blender.