Manas Dubey

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GitHub: https://github.com/d-manas28/
Leetcode:
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Education

- **Indian Institute of Technology (IIT) Patna**   **Patna, India**
  MTech in Artificial Intelligence. CPI: 8.42   *July 2022 - May 2024 (Expected)*

- **Lovely Professional University (LPU)**   **Jalandhar, India**
  BTech in Computer Science and Engineering. CPI: 8.80   *Aug 2017 - Jun 2021*

Work Experience

- **Software Product Developer Intern**   **Bengaluru, India**
  Simnovus India Pvt. Ltd.   *Jun '23 - Present*
  - Skills: C/C++, Golang, Docker, virtualization, Git, Linux, MongoDB, Scikit-learn, TensorFlow, Keras
  - Worked on setting up the 'PING' downlink connection from the App-server to the User Equipment or User Device. Developed the server code in C on the server end and the app-manager ping script in Golang to set up the connectivity.
  - Proficiently containerized and virtualized the app-server post Golang code rewrite.
  - Utilized Docker and virtualization technologies for enhanced scalability, portability, and resource efficiency. Transformed application deployment processes, enabling isolated development environments, and ensuring secure, reliable, and efficient performance.
  - Researching on Machine Learning and Deep Learning Use cases on Simnovator UE/RU Simulator.

- **J.P. Morgan Software Engineering Job Simulation**   **Forage**
  Forage   *October'23*
  - Skills: Open-Source Contribution, Financial Analysis, Financial Data, Git, Python, React, Technical Communication, Typescript, Web Application
  - I completed J.P. Morgan's Software Engineering on Forage, In the Simulation, I:
  - Set up a local dev environment by downloading the necessary files, tools and dependencies.
  - Fixed broken files in the repository to make web application output correctly.
  - Used JPMorgan Chase's open-source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor

- **Software Product Developer Intern**   **Chandigarh, India**
  XLScout Pvt. Ltd. (Previously: XLpat Pvt. Ltd.)   *Jun '20 - Jun '21*
  - Backend Dev Skills: Python, Django/Django REST, MySQL/PostgreSQL, REST API, Postman, Elastic Search, Google FUSE
  - ML/DS Skills: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Machine Learning, Natural Language Processing
  - Developed ML-based solutions for NLP-based problem statements. Developed ML models for classification, extraction, and clustering. API and Backend Development using Django REST.

Projects

- **Custom Chatbot on Personalized Reddit – Subreddit Data**
  - *Project Repo: https://github.com/d-manas28/Custom-Chatbot-with-reddit-data*
  - Developed a custom chatbot and data toolkit using pre-trained NLP models for sentiment analysis, emotion analysis, and OpenAI's ChatGPT model gpt-3.5-turbo.

- **Data Structure Automation – Desktop Application**
  - *Project Repo:* https://github.com/d-manas28/Desktop-Application---Data-Structure-Automation
  - Developed a Kernel-based software that automates the operations performed on Data Structures and Algorithms.
- **Emotion Detection Using Computer Vision**
  - *Project Repo:* https://github.com/d-manas28/Computer-Vision
  - Built a deep learning, CV model using OpenCV to detect emotions in real-time.
- **Simulate Search in Artificial Intelligence - Desktop Application**
  - *Project Repo:* https://github.com/d-manas28/Desktop-Application---Search-Simulation-in-Artificial-Intelligence
  - Developed a python-based desktop application to understand the search methodologies used in AI, that also lays the ground for current tech viz. Deep Learning, Computer Vision, etc.

Skills/Relevant Coursework

- **Programming/Development Languages:** C/C++, Python, Golang, HTML, CSS, JavaScript, MySQL/PostgreSQL

- **Core Courses:** Data Structures and Algorithms, Discrete Mathematics, System Design, Database Management Systems, Operating System

- **Professional Skills:** Object Oriented Programming (OOPs), Git, REST API, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Prompt Engineering, Soft Skills, Communication Skills

- **Frameworks and Libraries:** Django/Django REST, MongoDB, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, YOLO, OpenCV, BERT, GPT

Societies/Extra-Curricular Activities

Head Coordinator of the recruitment team at **Training and Placement Cell**, Indian Institute of Technology Patna