

Priyanshu Prasad Gupta

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SKILLS

- **Programming:** Python, Java, C++
- **Machine Learning:** TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, NLTK
- **Cloud & Backend:** AWS (EC2, S3, RDS, Lambda, Elastic Load Balancing, CloudFront, ECS, IAM), Flask, FastAPI
- **Android Development:** Java, Kotlin, Android Studio
- **Database:** MySQL, MongoDB
- **Tools:** Git, GitHub, VS Code

TRAINING

DSA Training | Hitbullseye & LPU

May 2024- Jun 2024

- Completed 84 hours of hands-on training in Data Structures and Algorithms with a focus on competitive programming and problem-solving efficiency.

Cloud Computing Training | CipherSchools & LPU

Jan 2025- Feb 2025

- Completed a training program on cloud computing fundamentals, deployment models, and service management.

PROJECTS

DiagnoChat – Disease Prediction Chatbot

Ongoing

- Built an Android application that interacts with users to identify probable diseases based on described symptoms.
- Implemented a multi-class classification model trained on 240K+ entries covering 773 diseases and 377 symptoms.
- Connected a Flask-based backend API with the mobile interface to process symptom inputs and return predictions.
- Integrated user-friendly chat UI enabling real-time symptom-based querying and automated response generation.
- Tech Stack : Android, Flask, Python, TensorFlow, Render

LandLens – Android App for Land Holding, Irrigation & Cropping Insights

May 2025

- Engineered an Android-based solution to assist farmers with actionable insights on land holdings, irrigation patterns, and cropping trends using historical data.
- Designed and structured the user interface with fragments and seamless data transfer, ensuring a smooth and interactive user experience.
- Incorporated data visualization modules to present irrigation and crop rotation analytics, empowering informed agricultural decisions.
- Tech Stack : Android(Kotlin)

Incident Tracker – Android App for Logging and Managing Reports

Apr 2025

- Built an Android app to record, categorize, and track user-reported incidents efficiently.
- Crafted a clean UI using fragments with real-time updates and structured navigation.
- Leveraged local data storage for offline access and persistent incident history.
- Tech Stack : Android, XML

Combining Autocorrect, Spellchecking, and Named Entity Recognition

Nov 2024

- Developed a Python-based machine learning model using a Kaggle dataset to predict house prices.
- Implemented probabilistic and sequence models to enhance accuracy and efficiency. Utilized the Shakespeare dataset from Kaggle for training and evaluation.
- Tech Stack : Python, Regex, NumPy, Collections, Unigram Language Model

Food Recommendation System Based on Nutritional Values

Oct 2024

- Created a recommendation system that suggests food items based on nutritional content.
- Utilized a K-Nearest Neighbours (KNN) model with cosine similarity as the distance metric.
- Pre-processed textual (ingredients) and numerical (calories, protein, carbs) data using TF-IDF and StandardScaler.
- Tech Stack : Python, Pandas, NumPy, Scikit-learn, Cosine Similarity

Certifications

- Cloud Computing | NPTEL Jan-Apr 2025
- Introduction to MongoDB for Students | MongoDB Dec 2024
- Prompt Engineering for ChatGPT | Coursera Feb 2024
- Introduction to Large Language Models | Coursera Feb 2024

EDUCATION

- **Lovely Professional University** Punjab, India
BTech (Computer Science and Engineering) Coursework: Data Structure, Design, and Analysis of Algorithms, Operating System, DBMS; **CGPA: 7.4** Since August 2022
- **DAV Public School, G.N., CCL** Jharkhand, India
Class XII CBSE **Percentage: 78.4%** 2020- 2021
- **DAV Public School, G.N., CCL** Jharkhand, India
Class X CBSE **Percentage: 81.8 %** 2018- 2019