Chahat Upadhyay

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EDUCATION

VIT BHOPAL UNIVERSITY — **Madhya Pradesh**
Bachelor of Computer Science Engineering — **July 2022 – May 2026**
Cumulative CGPA: 9.11

KENDRIYA VIDYALAYA BANSWARA — **Rajasthan**
10+2 [PCM.] **Percentage:** 93.80% — **April 2020 – June 2022**

PROJECTS

- **R.A.K.T. (रक्त आपूर्ति केंद्र तंत्र)** — **August 2023 - January 2024**
  - Designed a comprehensive web application that streamlined donor appointment scheduling by approximately **30%**, benefiting both users and hospital administrators with dual user roles (Donor & Patient).
  - Enabled **donors** to book appointments by selecting blood type, pincode, and hospital, resulting in a **35%** reduction in administrative follow-up tasks through automated email confirmations.
  - Designed an intuitive Patient portal that streamlines blood requests by **district pincode**, enhancing matching accuracy and cutting processing time up to **70%**.
  - Built a secure **Administration Dashboard** with robust authentication, improving real-time blood inventory management efficiency by **40%** and enabling accurate stock tracking. Integrated automated email notifications increased donor response rates by **20%**, ensuring timely alerts during emergencies and enhancing overall system responsiveness.
- **Customer-Churn prediction** — **January 2025 - February 2025**
  - Cleaned a dataset of **7,043 records** by removing unnecessary features, converting data types, and handling missing values, ensuring data integrity for model training.
  - Applied Feature Engineering through label encoding on categorical variables and balanced the imbalanced target (**73%** non-churn vs. **27%** churn) using **SMOTE**, achieving an even **50:50** class distribution.
  - Compared Decision Tree, Random Forest, and XGBoost models using 5-fold cross-validation, with the best model Random Forest reaching an average training accuracy of **84%**.
  - Deployed a **Random Forest** model with a test accuracy of **79%** and provided actionable churn predictions (e.g., **72%** churn probability), supporting effective customer retention strategies using streamlit.
- **Jelly-Fish prediction** — **January 2024 - May 2024**
  - Developed a Deep Learning model for Jellyfish species classification using pretrained models (VGG16, ResNet50, DenseNet121, EfficientNetB0) and transfer learning on jelly-fish dataset consisting of 6 different classes of 150 images each total, 900 images.
  - Augmented the dataset to 1800 images for increasing the generalization and evaluated on multiple models on test data, achieving **DenseNet121: 97.22%, VGG16: 93.75%** (Validation Accuracy), ResNet50: 37.22%, and EfficientNetB0: 15%
  - Built and deployed a Flask-based web app for real-time image upload and classification, enabling users to predict species with a user-friendly UI.
  - Optimized image preprocessing pipeline (resizing, normalization) and **enhanced UI/UX with HTML, CSS, and Flask**, improving accessibility and usability.

CORE SKILLS

Technical Skills
- Advanced: Core-Java, Python, SQL, C++, JavaScript, HTML/CSS.
- Proficient: AIML, DL Model Deployment & Cloud Computing.

Soft Skills
Data-Driven Decision Making, Collaborative Teamwork.
Effective Project Management, Precision in Execution.

ACHIEVEMENTS & CERTIFICATIONS

- **Top 5% Cloud Computing Course (NPTEL, IIT KGP 2024)**
  - Achieved a silver medal in the elite group: https://archive.nptel.ac.in/noc/Ecertificate/?q=NPTEL24CS17S45290065030444879
- **Top 5% Adobe GenSolve Hackathon (2024):**
  - This includes detection and prediction of user drawn imperfect images having different shapes and sizes and then generation of actual image: https://acrobat.adobe.com/id/urn:aaid:sc:AP:a0ddc6d8-d21e-46bb-805e-8d132eb88bca
- **Bits & Bytes** — **Course-Era December 2023**
  - Acquired expertise in core principles, including system architecture, network protocols & foundational workings of the internet.
- **TCS-Codevita:** Got All India Rank 249 in Round 2 held during 2025.