Bharat Upadhyay

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Education

Graphic Era Deemed to Be University — Dehradun, India
B.Tech in Computer Science & Engineering, CGPA: 8.98/10 — *Sep 2020 – Jul 2024*

Experience

Software Developer Engineer - L2 — Jul 2024 – Present
HummingBird Web Solutions Limited — *Pune, India*

- Architect and deliver web applications for **B2B clients** using **React.js, Express, Node.js**, and **Nginx**, optimizing performance, scalability, and user experience.
- Leverage **AWS services (EC2, S3)** for hosting and deploying client applications, driving enhanced reliability and deployment efficiency.

Data Science Intern — Aug 2023 – Dec 2023
Graphic Era University — *Dehradun, India*

- Formulated a **customer churn prediction model** using **Random Forests** and **XGBoost**, analyzing customer behavior and transaction data to identify high-risk users, improving retention efforts by **20%**.
- Leveraged **Python (Pandas, scikit-learn)** for data preprocessing, feature engineering, and model optimization, achieving 85% prediction accuracy.

Projects

Bon Voyage - AI Travel Companion: React.js, Ollama, Node.js, Flask — Source Code

- Engineered an **AI travel companion** using an 82% accurate recommendation model for suggesting hotels and attractions, and integrated **Ollama's Dolphin Phi** for itinerary planning.
- Integrated a **Flask** and **Node.js** backend with a responsive frontend of **React** and **JavaScript** for seamless user interaction.

AI Powered Chatbot: Artificial Intelligence, PyTorch, NLP, Deep Learning — Source Code

- Implemented an Artificially Intelligent Chatbot (accurate upto **78%**) using **Pytorch, NLP** and **Deep Learning**.
- Designed to automate responses to help treat **social anxiety** and **depression**.

Real-Time Emotion Detection model: Python, Keras API, Tensorflow, OpenCV — Source Code

- Engineered a real-time emotion detection model using **Keras, Tensorflow**, and **OpenCV**, achieving **71.69%** accuracy in classifying facial emotions.
- Designed a **UI** for real-time video stream analysis, detecting **7 emotional categories** with face detection powered by **HAAR-Cascade**.

Face Detection Attendance System: Python, OpenCV, Deep Learning, Tkinter — Source Code

- Created an Attendance System using **OpenCV, Deep Learning** for Face Recognition with a **Tkinter GUI**.
- Attained **78%** accuracy in face recognition, ensuring accurate and efficient attendance tracking.

Technical Skills

Languages: Python, C++, Java
AI/ML Tools: CNN, TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy
Databases: MongoDB, MySQL, Neo4j
Cloud Platforms: AWS (EC2, S3, Lambda), Azure (VM, Blob Storage)
Frontend Technologies: React.js, HTML, Tailwind CSS, Bootstrap
Backend Technologies: Flask, Django, Node.js, Express, Nginx
Developer Tools: Docker, Git, Jupyter, Colab, PyCharm, VS Code

Certifications/Achievements

- Certified **AWS Solutions Architect(SAA-C03)** and **AWS Cloud Practitioner(CLF-C01)**, demonstrating proficiency and foundational knowledge in AWS Cloud Services.
- Secured significant milestones on **LeetCode**, having a global rank **under 20,000** with over 800+ DSA questions.
- Competed in **GFG Mega-job-a-Thon** and secured a Global Rank of **461** with a score of 172/175.