Vijay Kumar Saini

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Bachelor in Technology
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EDUCATION

•**Jawaharlal Nehru University, New Delhi** *2023-present*
Btech Computer Science Engineering CGPA: 6.9/9.0

•**Rajendra Public School** *2023*
Central Board of Secondary Education, Haryana Percentage: 92

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Python, HTML, JavaScript, SQL
Developer Tools: GitHub, VS Code, Jupyter
Libraries/**Frameworks**: OpenCV, Mediapipe, cvzone, Dlib, Tkinter, React, React Native, Flask, TensorFlow, Keras
Machine Learning/ **Deep Learning**: Scikit-learn, Random Forest, Naive Bayes, Decision Trees, Neural Networks (LSTM, DNN), Data Preprocessing
Cloud/**Databases**: Google Cloud SQL, Supabase
Soft Skills: Public Speaking, Event Organization, Multitasking, Detail-Oriented, Critical Thinking
Areas of Interest: AI/ML for Accessibility, Human-Computer Interaction, Product Innovation, Quant Finance, Startups

PROJECTS

•**Walmart Smart Warehouse Management System**

Developed a smart retail warehouse system with demand prediction and product bundling based on customer purchase behavior.

– Tech Used: Python, Flask, MySQL, Pandas, Apriori Algorithm, Bootstrap
– Implemented product association mining to auto-suggest bundled items using Apriori algorithm
– Created real-time demand dashboard and optimized stock levels for faster inventory turnover

•**Gesture Control Keyboard**

Developed a virtual keyboard controlled using hand gestures, enhancing accessibility for users with limited mobility.

– Tech Used: OpenCV, Mediapipe, cvzone, Python, HandTrackingModule
– Integrated gesture recognition and virtual keypress simulation with real-time word suggestions and multilingual support.

•**CrediClear – AI-powered Credit Risk Evaluator**

Built a GUI-based system for predicting credit approval using ML algorithms trained on financial datasets.

– Tech Used: Python, Tkinter, Pandas, Random Forest
– Achieved 87 percent accuracy in approval prediction and provided real-time loan decision assistance for financial institutions.

•**Face-Tap – Touchless Control via Face Gestures**

Engineered a system enabling control of UI elements using facial movements (blink, head tilt, etc.).

– Tech Used: Python, OpenCV, Dlib
– Designed to support accessibility use-cases and hands-free computing environments.

EXPERIENCE

•**Phoenix - Enterpreneurship Club** *09/2024-present*
Executive JNU
– Organized an IPL-style auction event with 8 teams, simulating real-world bidding and strategy dynamics
– Fostered team engagement, budgeting, and leadership among 50+ participants

•**National Cadet Corps (NCC), 2 Delhi Artillery Battery, JNU** *2023-present*
Corporal
– Organized Shaurya Spardha 2024(JNU NCC annual sports event) with a footfall of 300+ students
– Managed cadet recruitment, coordinated inter-unit collaboration (2DAB and 3DGBN), logistics, and resource mobilization
– Attended CATC (Combined Annual Training Camp) and led the social media team

POSITIONS OF RESPONSIBILITY

•**Executive,** Phoenix - Enterpreneurship Club *09/2024-present*