Muhammad Ismail

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Achievements & Competitions

Merit-Based Scholarships | *BS Computer Science*
- Awarded merit-based scholarships 4 times during the BSCS program for outstanding academic performance.

National IT Skill Competency Test (NSCT) | *HEC Pakistan*
- Achieved 95.3 percentile among 33,000+ candidates in a nationwide computing assessment (April 2026).
- Scored 100% in the Databases and Web Development Basics sections of the nationwide assessment.

IELTS Academic (7.0 Overall) | *British Council*
- Attained an overall CEFR C1 (Advanced) level in the IELTS Academic exam, assessed across all four skills.

CodeSprint LA 2026 | *ACM-ICPC UCLA, International*
- Ranked 13th globally in the Beginner Division of UCLA's annual international algorithms contest.
- Solved timed algorithmic problems alongside two teammates across a 12-hour US timezone difference.

CALICO Fall 2026 | *UC Berkeley, International*
- Competed in UC Berkeley's global programming contest as part of a 3-person team.
- Collaborated remotely overnight with teammates from Madagascar and Nepal to solve algorithmic challenges.

LeetCode | *Algorithmic Problem Solving*
- Solved 50+ LeetCode problems covering core data structures and algorithms.
- Submitted feedback on Next Permutation that the LeetCode team used to enhance the problem.

Projects

Face Mask Detection System | *Python, CNN, TensorFlow, OpenCV, MediaPipe, Flask, SQLite*
- Built a two-stage pipeline (MediaPipe face detection + MobileNetV2 classifier) on a 19,132-image dataset, reaching 99.7% accuracy on a 966-image held-out test set.
- Developed a Flask app with image uploads, live webcam detection, and SQLite-powered admin analytics.

Glaucoma Detector | *EfficientNetB3, Transfer Learning, TensorFlow/Keras, Streamlit*
- Fine-tuned the top 70 layers of EfficientNetB3 with CLAHE contrast enhancement on a 9,540-image fundus dataset, attaining 87.1% accuracy and 0.94 AUC on the test set.
- Deployed an interactive web application that classifies images as Normal or Glaucoma Suspected.

Breast Cancer Prediction | *Scikit-learn, Logistic Regression, Streamlit*
- Built a logistic regression classifier for benign vs. malignant tumors, selecting 5 key features for interpretability.
- Achieved 96% test accuracy and 0.997 ROC-AUC, and deployed the model as an interactive web application.

Education

Bachelor of Science in Computer Science [Transcript] **CGPA: 3.85 / 4.00**
Virtual University of Pakistan *Oct. 2022 – Sept. 2026*

Volunteering

iCodeGuru (USA, Remote) | *Moderator & DSA Mentor*
- Moderated a 4-week online IELTS preparation course (19+ hours) from start to finish, managing Zoom sessions, participants, recordings, and live communication.
- Mentored 15+ students across two live NeetCode DSA sessions on algorithmic problem-solving.

Technical Skills

Languages: Python, C++, C, JavaScript, SQL
AI & Data Science: Machine Learning, CNN, TensorFlow/Keras, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib
Web Development: HTML/CSS, Flask, Streamlit, Node.js, WordPress, SEO
Tools & Fundamentals: Git, Linux, DSA, OOP