

PRIYA MAJUMDAR

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Curious, motivated, and detail-oriented Computer Application graduate with hands-on experience in machine learning, deep learning and mobile application development. Skilled in building intelligent, real-world solutions such as eye power prediction, eye disease detection, and fake news classification. Experienced in designing and developing multiple responsive web pages and user-friendly interfaces. Strong foundation in Python programming, model deployment, web technologies, and mobile integration. Actively engaged in research internships and national-level tech events, showcasing a continuous passion for innovation and applied AI in healthcare and media domains.

EDUCATION

- Master of Computer Application (MCA) 2023-2025
Sister Nivedita University, Techno India Group, Kolkata, WB, India **CGPA: 8.46**
- Bachelor of Computer Application (BCA) 2020-2023
Raja Narendra Lal Khan Women's College Medinipur, WB, India
(Autonomous), Vidyasagar University,
CGPA: 8.93
- Hijli High School, IIT-Kharagpur, 2019-2020
WBCHSE (10+2) Kharagpur, WB, India
Percentage: 81%

SKILLS SUMMARY

- Language: Python, C, C++, Java, SQL
- Web Technologies : HTML, CSS, JavaScript, React
- Frameworks : Pandas, Numpy, Scikit-Learn, Matplotlib, Paddle Paddle, OpenCV, Keras
- Tools :Excel, PowerPoint, MySQL
- Platforms : Jupyter Notebook, Visual Studio, Spyder, Android Studio, Git & GitHub, Kaggle
- Soft Skills: Rapport Building, Strong Stakeholder management, People management, Problem Solving, Decision making, Leadership, Time management

WORK EXPERIENCE

- Teaching Assistant - Department of Computer Science & Engineering, Swami Vivekananda University, Barrackpore, Kolkata, West Bengal (full time) **Feb, 2026 - Present**
- Student Mentor Support - Tutopia Private limited, Hitch Animation, 113/A, Matheswartala Road, Tangra, Kolkata, West Bengal 700046 (Full Time) **Sept 2025 - Feb, 2026**
- Internship at IIT- Kharagpur, Computer Science and Engineering Department, Kharagpur, WB, India, Developed Eye Power Detection utilizing deep learning and Python, including model deployment for a mobile application. Research Paper On " Eye Power Detection Using smartphone Camera – ongoing being prepared for IEEE Journal Publication , **Jan 2025 – Sept 2025**

PROJECTS

- **Eye Power Detection JAN 2025-JUNE 2025** Developed a deep learning-based eye power detection system using ResNet50 trained on fundus images, converted to ONNX, and deployed in an Android app with offline real-time prediction.
Technologies used: Paddle Paddle, Python, ResNet50, ONNX, ONNX Runtime, Android Studio, Image Processing (OpenCV), Mobile Deployment.
- **Eye Detection using feature fusion OCT 2024-April 2025** Developed a deep learning-based eye disease detection system using feature fusion of MobileNetV2 and Xception with CBAM attention to improve classification accuracy for Cataract, Glaucoma, DR, and Normal cases.
Technologies Used: Python, TensorFlow, Keras, MobileNetV2, Xception, CBAM, Feature Fusion, Transfer Learning, Image Preprocessing, Data Augmentation, Evaluation Metrics.
- **Fake News Detection using Machine Learning DEC 2022 - JUNE 2023** Developed a fake news detection system using machine learning with text preprocessing, TF-IDF feature extraction, and classifiers like Logistic Regression and Naive Bayes, evaluated by accuracy and F1-score.
Technologies Used: Python, Scikit-learn, Pandas, NumPy, TF-IDF, Logistic Regression, Naive Bayes, Text Preprocessing, NLP, Jupyter Notebook
- **Web Pages DEC 2022-JUNE 2023** Calculator, Odd-even check interfaces, Current newspaper

ACHIEVEMENT & HACKATHONS

- Conference Presentation Certificate: 6th International Conference on frontiers in Computing and systems (COMSYS 2025) Published by Springer, September, 2025
- 2023: Development of Computer Science Frontiers: WSN & Edge Computing
- 2023: Tech Explore 2023 (Data Science & Machine Learning), from CIT (Calcutta Institute of Technology)

PUBLICATION

Majumdar, P., et al. (2025)

Eye Disease Classification using Feature Fusion based Deep Models. Published at the 6th International Conference on Frontiers in Computing and Systems (COMSYS 2025).

COURSE

- Learning the basic and finance Instructor.