

Debasish Dutta

Research Scholar, Computer Science

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SCHOLASTIC ACHIEVEMENTS

- Cleared **UGC-NET JRF** [2024]
- Secured **Rank 1** in GURET [2023]

RESEARCH EXPERIENCE

- **JRF — Gauhati University** [Jul'23-Present]
 - Conducted research on deep learning techniques for enhancing microscopic images, resulting in a 25% improvement in image clarity.
 - Collaborated with a team of researchers to develop a novel approach for image deblurring, accepted at an International Conference on Image Processing. [ACCEPTED]
- **Graduate Researcher — Gauhati University** [Sept'21-Jun'23]
 - Designed a Language and created a compiler for it, focusing on the arm architecture.
 - To publish a paper based on the findings.[COMMUNICATED]

WORK EXPERIENCE

- **Trainer Associate — Mantra Associates** [Sept'23-]
 - Conducted and assisted in Student Training Programme training sessions.
- **Research Scholar — Gauhati University** [Aug'23-]
 - Conducting advanced research in Computer Science, specializing in Deep Learning and its applications in Microscopy Image Analysis.
 - Collaborating with interdisciplinary teams to integrate domain knowledge and enhance research outcomes.
 - Assisting in teaching undergraduate and graduate courses, preparing lecture materials, and guiding students through practical sessions.
- **NLP Intern — Artificial Brix** [Jan'21-Mar'21]
 - Developed and implemented an advanced document classifier utilizing OCR engines and machine learning algorithms, achieving an impressive accuracy rate of 93%, resulting in a significant 50% reduction in processing time for document review.
 - Spearheaded the development of a song-audio classifier based on emotions, achieving an accuracy rate of 85% using a combination of NLP and audio analysis techniques, resulting in a 30% increase in user engagement on the music app.
- **Freelance Web Developer & Data Analyst** [2019-Present]
 - Designed and developed responsive websites for local businesses and small startups, enhancing their online presence and user engagement.
 - Developed machine learning models for business analytics, improving decision-making processes and customer insights.
 - Conducted data analysis and visualization projects, providing actionable insights that enhanced business performance.

EDUCATION		
Course	University	Year
Ph.D. Computer Science	Gauhati University	Aug '23 -
M.S. Computer Science	Gauhati University	Jun '23
B.S. Electronics	Dibrugarh University	Sept '20
SKILLS & INTERESTS		
<ul style="list-style-type: none">• Professional Affiliations: Student Member of IEEE• Programming Languages: C, C++, Python, Java, Javascript• Tools & Libraries: Scipy, Matplotlib, TensorFlow, PyTorch, L^AT_EX, React• Interests: Data Analysis, Machine Learning, Deep Learning• Soft Skills: Communication, Problem-solving, Leadership, Creativity		
CERTIFICATIONS		
• Certified Machine Learning Engineer - Coursera		[Sept'22-Jun'23]
• Deep Learning Specialization - Coursera		[Sept'22-Jun'23]
• AWS Certified Solutions Architect - Associate		[Sept'22-Jun'23]
HONORS & AWARDS		
<ul style="list-style-type: none">• #3 among 2400+ participants in Build with AI 2020 Global Hackathon		