

PRIYANSH KHAJURIA

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Location: New Delhi, India

EDUCATION

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY | Noida, Uttar Pradesh

July 2025

Bachelor of Computer Science & Engineering

RAMJAS SCHOOL | Anand Parbat, New Delhi

July 2021

High School

WORK EXPERIENCE

RESEARCH ASSISTANT | Noida, Uttar Pradesh

Present

Research Assistant at Jaypee Institute of Information Technology

- Conducting comparative analysis of human-generated and AI-generated text summaries using advanced machine learning algorithms
- Evaluating effectiveness and accuracy of various text summarization techniques across different genres and document types.
- Collaborating with faculty to develop novel metrics for assessing quality and coherence in automated text summarization

GIRLSSCRIPT SUMMER OF CODE | Remote

Sept 2024

Open Source Contributor

- Contributed to multiple projects with over 20+ commits, demonstrating a strong commitment to open-source development
- Designed and developed landing pages for various projects, fixed numerous issues and bugs, improving the overall quality and stability of the projects
- Developed a strong understanding of the MERN tech stack, with the ability to apply this knowledge in a variety of contexts

PROJECTS

SIGN-2-SPEECH : REAL-TIME SIGN LANGUAGE TO SPEECH CONVERTER

Dec 2024

- Developed a real-time Sign to Speech translation system using computer vision and deep learning.
- Implemented MediaPipe hand tracking and CNN-based gesture recognition for accurate sign language translation.
- Achieved 97% accuracy for static gestures and 92% for dynamic gestures with latency under 1 second.
- Designed a cost-effective, sensor-free system, improving accessibility for the deaf.

ENHANCED MAMMOGRAPHIC ANALYSIS FOR BREAST TUMOR DETECTION USING HPC

July 2024

- Developed deep learning model for early breast cancer detection, reducing diagnostic errors
- Optimized CNN architectures (including DenseNet) using CBIS-DDSM dataset
- Conducted experiments on: Local setup: 2 NVIDIA T4 GPUs & RAMNUJAN UNIVERSE supercomputer: 8 NVIDIA A100 GPUs, 576 cores, 4.5 TB RAM
- Demonstrated proficiency in scaling ML workflows from local to supercomputing environments

BARKS & WHISKERS (PET ADOPTION AND REHOME WEBSITE)

Jan 2024

- Built full-stack, responsive web app for pet adoption and rehoming
- Implemented advanced search algorithm for customizable pet matching
- Tech stack: Node.js, Express.js, React.js, MongoDB, Firebase, Google OAuth API
- Utilized Tailwind CSS for responsive design and improved user experience

ADDITIONAL

Technical Skills: C/C++; Advanced in SQL, PHP, Javascript, HTML/CSS; Proficient in MERN Stack, Python [Libraries: NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow]

Tools & Methodologies: Git and Github (Version Control), Apache Kafka (Big Data), Agile & SDLC (Project Management)

Languages: Hindi (Native), English (Fluent)

Certifications & Training: Agile Project Management (Google), Data Science Master Course (Coding Blocks), The Bits and Bytes of Computer Networking (Google)

Volunteer Experience: National Service Scheme (NSS): participated in community service events, GreenBhumi: Volunteer Intern, assisted in environmental conservation efforts