

Pearl Khatri

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Academic Education

Banasthali Vidyapith University <i>BTech in Information Technology</i>	Aug'21 – Aug'25 3.9 / 4.0 GPA
Banasthali Vidyapith University <i>Diploma in French</i>	Aug'21 – Aug'23 86.4%
Banasthali Vidyapith University <i>Advanced Diploma in Computer Networking</i>	Aug'23 – Aug'24 On-going

Relevant Coursework

- Database Management
- Computer Networking
- Artificial Intelligence
- Software Engineering
- Data structures
- Machine Learning
- Operating System
- OOPs
- Web Technology

Internship

Summer Intern	May'23 – Jun'23
Defence Research and Development Organization (DRDO), New Delhi	
<ul style="list-style-type: none">Developed an intuitive university database GUI utilizing Java, NetBeans, and Swing for efficient information management.Designed modular code components for the GUI, enhancing maintainability and extensibility.Integrated PostgreSQL database with SQL for seamless data entry and retrieval, featuring a structured table for comprehensive data overview.	

Projects

Domain Adaptation in Large Language Models

- Developed a Chatbot using a pre-trained LLM model - Gemma.
- Curated a comprehensive dataset from Banasthali Vidyapith's annual reports, meticulously organizing information on admission requirements, procedures, fees, and available courses to create a solid knowledge base for the chatbot.
- Finetuned the model using LoRA (low Rank Adaptation) technique and achieved an **accuracy of 97%**.

Liver Tumor Segmentation

- Implemented UNet architecture enhanced with selective attention and link skipping for liver tumor segmentation.
- Evaluated on LiTS dataset, achieving a Dice Similarity Coefficient of 0.89 and mean IOU of 0.76, outperforming FCN, UNet, UNet++, and SegNet models in accuracy and robustness.
- The project was published as it demonstrated capability to improve medical imaging applications through advanced segmentation techniques.

Movie Recommendation System

- Developed a Movie Recommendation System leveraging foundational **Natural Language Processing concepts**.
- Applied Term Frequency-Inverse Document Frequency Vectorizer (TfidfVectorizer) for feature engineering and employed cosine similarity for accurate movie recommendations.

Research Publications

- Darshan Patil, **Pearl Khatri**, Dr. Gopal Sakarkar, Atharva Khedkar, Hong-Seng Gan and Muhammad Hanif Ramlee. "**Selective Attention UNet for Segmenting Liver Tumors.**" In 2023 International Conference on Cyber-physical Social Intelligence (ICCSI-23), pp. 1-6. IEEE, 2023.

Achievements

Ericsson Empowering Female Engineering Scholar

- This scholarship is **awarded to only 100 students all over India** which includes a reward of **Rs. 75,000/-** towards the course fee.

GHC Scholar – 2023

- Recipient of a scholarship encompassing at the Grace Hopper Celebration (GHC'23) from 26th-29th Sep'23, one-year **premium AnitaB.org Membership Benefits**, to access networking, mentorship, academic and technical events.

ISSET Scholar - 2022

- Awarded with a **Two-way flight tickets scholarship** (worth Rs. 20,000/-) to attend **ISSET'22 (International Startup Enrichment Tour) in Singapore**.

Harvard WECODE Scholar - 2023

- Awarded the WEAmplify Scholarship to attend the Harvard **WECODE: Women Engineers Code Conference 2023**, organized by **Harvard University**.

Women Entrepreneurship Program

- Out of 500 students**, selected for the training of 3 days in entrepreneurship and secured first position in the "Ideathon" organized by E-Cell, **Banasthali Vidyapith on 20 Sep 2022**.

Volunteering Experience

Beta Microsoft Learn Student Ambassador, Microsoft

Apr'22 – present

- Organized educational webinars, provided mentorship to peers, and guided prospective students through the application process, fostering skill development and community engagement.

Chapter Lead, GirlScript Hooghly

Feb'22 – Jan'23

- Led recruitment process, strategized & organized tech events, promoted Girlsript initiatives, and represented the organization at workshops.

Sergeant-At-Arms, Rotaract Club of Delhi Femina

Jan'22 – Sep'22

- Led impactful initiatives, including organizing competitions, webinars, and awareness campaigns, while actively participating in seminars and events focused on women's empowerment.
- Developed leadership, communication, and interpersonal skills by maintaining order, collaborating with club members, and engaging with guests.

Public Relations Manager, GirlUp Ahsaas

Mar'22 – Mar'23

- Initiated and led various campaigns and workshops addressing women's health, education, and financial literacy in marginalized communities.

Certification and Courses

Foundations of Project Management, issued by Google

- Established a strong understanding of project management, organizational culture, career development, strategic thinking, and project management methodologies.

AI for All, issued by INTEL

- This is a self-paced online learning course designed to raise public awareness about Artificial intelligence.

Dream Builder Course, issued by Arizona University

- Acquired comprehensive skills in business planning, market research, and entrepreneurship, culminating in the development of a personalized business plan for launching or expanding a business.

Language Proficiency

- English**

Full Professional Proficiency

- Hindi**

Native proficiency

- French**

Limited Working proficiency

Extra-curricular Activities

Horse Riding

Nov'22 – Mar'23

- Capable of riding a horse in walk and trot movements.

Hand Embroidery

Jan'23 – Feb'23

- Capable of adding a decorative element to quilts, garments and accessories through hand embroidery.