Rehmat Kaur

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ABOUT ME

Undergraduate student in Computer Science and Mathematics at Ashoka University with research interests in machine learning, particularly in natural language processing and computational modeling for healthcare and environmental data. Seeking research and industry opportunities in NLP, data science, and software engineering.

PROFESSIONAL EXPERIENCE

ANIMAL ACOUSTICS PROJECT, ASHOKA UNIVERSITY **Aug 2025 - Present**

Research Intern

- Contributed to research on machine learning approaches for bioacoustic signal classification, focused on Asian elephant vocalizations
- Benchmarked a novel deep learning model against the Cornell Elephant Listening Project (ELP) baseline to evaluate detection performance and robustness
- Conducted comparative experiments and performance analyses using CNN and RNN architectures on curated elephant sound datasets

DEPARTMENT OF COMPUTER SCIENCE, ASHOKA UNIVERSITY **Aug - Dec 2025**

Teaching Assistant – Introduction to Computer Science

- Assisted Prof. Aalok Thakkar (PhD, University of Pennsylvania) in teaching foundational computer science concepts using OCaml
- Designed and implemented programming assignments and assessments, reinforcing functional programming, recursion, and algorithmic reasoning.

L'Oreal **June - July 2025**

Intern, Summer Immersion Program

- Conducted market research and competitive analysis within the Travel Retail Asia-Pacific segment, identifying emerging consumer trends and growth opportunities
- Presented findings and recommendations to the Head of Travel Retail, Asia Pacific
- Gained exposure to supply chain and operations management through field sessions at L'Oréal's Singapore office

AUGMENTED HEALTH SYSTEMS LAB, ASHOKA UNIVERSITY **May - Aug 2025**

Research Intern

- Worked with the PanNuke dataset to evaluate nuclei segmentation and classification in histopathology slides
- Analysed accuracy metrics to benchmark model performance across different nuclei types
- Supported the lab's development of tools for digital pathology annotation

ASHOKA UNIVERSITY **May - Aug 2025**

Research Intern

- Used Microsoft Aurora to process and predict weather data trends relevant to soil degradation
- Applied polynomial regression to estimate soil composition and health across plantation sites
- Performed data cleaning to prepare environmental datasets for modelling

EDUCATION

ASHOKA UNIVERSITY

B.Sc. (Hons) in Computer Science and Mathematics, Minor in Economics

CGPA - 3.78