REHMAT KAUR

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EDUCATION:

Ashoka University (2024-2028) - B.Sc. (Hons) in Computer Science and Mathematics, Minor in Economics
CGPA - 3.82/4.0

SKILLS:

Programming Languages : Python, OCaml, C++, C, TypeScript
Tasks : Supervised learning, model evaluation, benchmarking, classification, segmentation, polynomial regression, statistical modelling, dataset preprocessing
Libraries : NumPy, Pandas, scikit-learn, spaCy, PyTorch, Hugging Face, React

PROFESSIONAL EXPERIENCE:

POLICYSTORY, ASHOKA UNIVERSITY
Research Intern **Nov 2025 - Present**

- Contributing to an in-progress research paper on PolicyStory, a topic-oriented, chronological summarization system for Indian policy news
- Processed 12,000+ policy news articles to extract quantitative data (budget allocations, counts, percentages, timelines) for structured analysis
- Fine-tuned a BERT-based token classification model to identify policy metrics, numerical values, and temporal references, aggregating outputs into longitudinal time-series visualizations to track trends

ASHOKA UNIVERSITY
Research Intern **Aug 2025 - Present**

- Conducting research on machine learning–based bioacoustic classification of Asian elephant vocalizations, benchmarking a proposed deep learning model against the Cornell Elephant Listening Project (ELP) baseline for detection performance
- Validating multiple in-house model variants (LSTM, SVM, Random Forest) against a 90-clip ground-truth dataset to evaluate classification accuracy and comparative performance

L'Oreal
Intern, Summer Immersion Program **June - July 2025**

- Conducted market research and competitive analysis for brands like Lancome and Yves Saint Laurent 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

ASHOKA UNIVERSITY
Research Intern **May - Aug 2025**

- Worked with the PanNuke histopathology dataset for nuclei segmentation and classification tasks
- Evaluated segmentation and classification models using accuracy, precision, recall, and class-wise metrics across nuclei types

ASHOKA UNIVERSITY
Research Intern **May - Aug 2025**

- Implemented Microsoft Aurora to generate weather forecasts for 50 cities across the U.S., Western Europe, and the Indian subcontinent.
- Scraped and compiled ground-truth weather data to benchmark model predictions across regions, evaluating comparative performance to identify forecasting accuracy and robustness across geographical variations

POSITIONS HELD

DEPARTMENT OF COMPUTER SCIENCE, ASHOKA UNIVERSITY
Teaching Assistant – Discrete Mathematics **Jan 2026 - Present**

- Designed and graded C-based programming assessments, and assignments covering logic, functions, combinatorics, graph theory, number theory, and automata theory

Teaching Assistant – Introduction to Computer Science **Aug - Dec 2025**

- Assisted Prof. Aalok Thakkar (PhD. University of Pennsylvania) by designing and grading programming assignments and assessments in Ocaml, reinforcing functional programming, recursion, and algorithmic reasoning

PROJECTS

A Review of Machine Translation **Nov 2025 - Jan 2026**

- Working under Prof. Lipika Dey on a comprehensive review of machine translation from incipient technologies to present, with a special focus on context-aware methods and low resource languages