


Manpreet KOUR

Ph.D. Candidate | AI for Accessibility | Deep Learning Researcher

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I am a research-oriented Ph.D student working on "Transforming Visual Content to Enhance Accessibility of Illustrations for Students with Visual Impairments". My research focuses on creating innovative solutions to make visual information accessible to visually impaired students, utilizing innovative techniques in AI and deep learning. The title of my PHD is Diagram Analysis for Visually Impaired Readers

Education

- Ph.D. in Informatics Universite Paris-Est Creteil, France (2024- Present)
 - MSc in Biometrics and Intelligent Vision Universite Paris-Est Creteil, France (2022- 2024)
 - B.Tech in Computer Science Eternal University, India (2016- 2020)
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Work Experience

- Project Intern: LIRIS/CNRS Lab Lyon, France (Feb 2024 July 2024) - Neural Fuzzy Extractor, TensorFlow, Scikit-learn, OpenCV
 - Software Developer, Toxsl Technologies India (Aug 2020-Aug 2022) - PHP Frameworks, Architecture, API Handling, Project Management
 - Software Developer Intern, Toxsl Technologies India (Jan 2020 Aug 2020) - PHP Frameworks, Architecture, API Handling
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Projects

- Unity AR Game Coconut Shy
 - MRI Image Generation using StyleGAN
 - Face Recognition with Human MRI VGG, ResNet, FaceNet
 - COVID-19 Data Visualization Python
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Publications

- **Co Author** -Diagram Annotation and Classification for Visually Impaired People in Higher Education. TechRxiv. DOI: [10.36227/techrxiv.174535333.38097989/v1](https://doi.org/10.36227/techrxiv.174535333.38097989/v1) (year 2025) (Ajitesh Parihar, Manpreet Kour, Gaetan Hains, Karine Gros, Mohamed Saber, Kristina Cormier)
- **Author** - Enhancing Diagram Comprehension for the Blind or Visually Impaired: A Multimodal Approach (JCJC2025), Presentation on June 10, 2025 (year 2025), (Manpreet Kour, Gaetan Hains, Karine Gros, Mohamed Saber)
- **Author** - Diagram Analysis for Visually Impaired Readers November 2025 DOI: [10.1109/ICIIIP68302.2025.11346210](https://doi.org/10.1109/ICIIIP68302.2025.11346210) Conference: 2025 Eighth International Conference on Image Information Processing (ICIIP) Manpreet Kour, Gaetan Hains, Karine Gros, Mohamed Saber)
- **Author**, Making Charts Accessible: Bar and Pie Chart Interpretations (M. Kour, G. Hains and M. Saber, 2025 Computing, Communications and IoT Applications (ComComAp), Madrid, Spain, 2025, pp. 318-323, doi: 10.1109/ComComAp68359.2025.11353202, <https://ieeexplore.ieee.org/document/11353202>

Achievements

- Reviewed few Papers for 7th & 6th International Conference on Bio-engineering for Smart Technologies(Italy 2026) (ESME Paris, 2025)
- Member of Organizing Committee 6th & 5th International Conference on Bio-engineering for Smart Technologies (ESME Paris, 2025, 2023)
- Committee Member International & National Events at Eternal University (2017,2018).
- Coordinator XTREEME 2018 | 1st & 3rd Place in Innovation Events, at Eternal University (2017,2018).

Languages

- English (C2), French (A2), Hindi (C2), Punjabi (C1)