Kevlyn Stanly Kadamala

kadamala.kevlyn@gmail.com | GitHub | LinkedIn

CAREER OBJECTIVE

PhD researcher with hands-on experience in computer vision, natural language processing, deep reinforcement learning and AI-driven optimisation. Passionate about leveraging advanced algorithms and real-world data to solve complex challenges, with a strong foundation in Python, simulation tools, and AI frameworks. Committed to contributing technical excellence and creative problem-solving in a dynamic, research-oriented environment.

WORK EXPERIENCE

AI Modelling Intern, Huawei, Dublin **October 2024 - October 2025**

- Designed digital twins of optical networks, where the worst-case power deviations were reduced to within 0.8dB
- Conducted comprehensive literature reviews to identify state-of-the-art methods and gaps in data catalogue and digital twin systems
- Contributed to infrastructure optimisation projects like NPU operator estimation and datacenter network simulations by rapidly providing research reviews and proposing solutions
- Reimplemented cutting-edge algorithms from academic literature, validating and reproducing key results to benchmark performance and identify opportunities for improvement
- Developed and evaluated prototypes for vectorised search using large language models and vision language models
- Awarded "Excellent Intern" during the internship

Consultant, Revent.AI, Mumbai **August 2023 - June 2024**

- Led the research and development of computer vision and large language models for automated parsing of PowerPoint presentations
- Curated and annotated high-quality datasets to train and validate models for automated PowerPoint parsing
- Experimented with diverse LLMs and prompt engineering strategies to optimise performance
- Co-lead through the entire product lifecycle, from initial concept to successful deployment

Research Intern, Insight Centre for Data Analytics, Galway **February 2022 - August 2022**

- Contributed to the Cardamom project, focusing on historical and under-resourced languages, under the mentorship of Dr John McCrae; work supported research later published - The Cardamom Workbench for Historical and Under-Resourced Languages (Doyle et al., LDK 2023)
- Developed a web-based text annotation tool using React and Flask, designed specifically for annotating these languages

EDUCATION

October 2022 - October 2026 Structured PhD (Engineering), University of Galway, Galway

Scholarship awarded by Science Foundation Ireland Centre for Research Training in Artificial Intelligence under Grant No. 18/CRT/6223.

Topics: Reinforcement Learning, Deep Learning, Transfer Learning, Building Energy Management Systems

Trainings: Machine Learning, Computer Vision, Recommender Systems and Reinforcement Learning, Constraint Programming and Optimization, Natural Language Processing

September 2021 - August 2022 MSc in Artificial Intelligence, University of Galway, Galway

Grade: 1st class honours

Subjects: Information Retrieval, Data Visualisation, Introduction to Natural Language Processing, Programming and Tools for AI, Deep Learning, Agents, Multi-Agent Systems and Reinforcement Learning, Research Topics in AI, Optimisation, Artificial Intelligence and Ethics, Principles of Machine Learning, Advanced Topics in Natural Language Processing, Systems Modelling and Simulation

August 2017 - June 2021 Bachelor's in Computer Engineering, Fr. Conceicao Rodrigues College, Mumbai

Final CGPA: 9.44

Subjects: Natural Language Processing, Big Data and Analytics, Operations Research, Artificial Intelligence & Soft Computing, Distributed Computing, Cloud Computing, Project Management

PUBLICATIONS

Published

K. Kadamala, D. Chambers, and E. Barrett, 'Improving HVAC control with transfer learning: Using padding techniques for cross-building pre-training and fine-tuning', Energy and AI, vol. 21, p. 100531, Sep. 2025, doi: 10.1016/j.egyai.2025.100531.

K. Kadamala, D. Chambers, and E. Barrett, "Transfer Learning with TD3 for Adaptive HVAC Control in Diverse Building Environments," Communications in computer and information science, pp. 256–267, Jan. 2025, doi: 10.1007/978-3-031-73058-0_21.

K. Kadamala, D. Chambers, and E. Barrett, 'Enhancing HVAC Control Efficiency: A Hybrid Approach Using Imitation and Reinforcement Learning', in Machine Learning and Knowledge Discovery in Databases. Applied Data Science Track, Cham: Springer Nature Switzerland, 2024, pp. 256–270. doi: 10.1007/978-3-031-70378-2_16.

K. Kadamala, D. Chambers, and E. Barrett, 'Enhancing HVAC control systems through transfer learning with deep reinforcement learning agents', Smart Energy, vol. 13, p. 100131, Feb. 2024, doi: 10.1016/j.segy.2024.100131.

K. Kadamala and J. Griffith, 'An Insight into NeuroEvolution and Genetic Algorithms for Text Classification', Procedia Computer Science, vol. 225, pp. 1379–1387, 2023, doi: 10.1016/j.procs.2023.10.126.

K. Deorukhkar, **K. Kadamala**, and E. Menezes, 'FGTD: Face Generation from Textual Description', in Inventive Communication and Computational Technologies, Singapore, 2022, pp. 547–562. doi: 10.1007/978-981-16-5529-6_43

TEACHING EXPERIENCE

Teaching Support Staff **2021 - 2026**

CT5133 - Deep Learning, CT5167 - Cloud Web Application Development, CT102 - Algorithms, CT1100 - Computer Systems

SKILL PROFILE

Deep Learning:	Tensorflow, PyTorch, HuggingFace, LangChain
MLOps:	Docker, Kubernetes, Weights and Biases, MLFlow
Cloud Platforms:	AWS, GCP, Azure
Data Science:	Pandas, Numpy, Scikit-Learn, Streamlit, Plotly, Matplotlib
Programming Languages:	Python, JavaScript, C++, R
Backend Development:	Node, Flask, FastAPI, MongoDB
Leadership Roles:	Undergraduate Football Team Captain from 2019 to 2021
Teamwork:	Local Football Team - Galway Galaxy, LIFT Facilitator at the University of Galway

PROJECTS

Image Captioning using PyTorch - WandB

- Built an image captioning model using the InceptionV4 model and RNNs
- Implemented a CNN Encoder and an RNN Decoder with Attention
- Visualised the training loop and outputs with Weights and Biases

PyBoxCar

- Built a game environment for evolutionary computing in Python
- Reimplemented a BoxCar2D version of the problem
- Incorporated the genetic algorithm to solve the game environment

ACHIEVEMENTS

- Awarded Fully Funded PhD scholarship by Science Foundation Ireland
- Winner of Best Quantum Computing Hack, MacHacks, McMaster University, Ontario (February 2020)
- 1st position in SPIT Hackathon, Mumbai (February 2020) and Smart India Hackathon, All-India (August 2020)
- 2nd position out of 50 teams at the DMCE Hackathon, Mumbai (January 2020)
- Finished 4th out of 450 teams at the Tata Motors AI Hackathon after qualifying for two rounds (September 2019)