

# RICK REJELEENE

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## PROFESSIONAL SUMMARY

Experienced Machine Learning PhD candidate with extensive North America work experience including machine learning, software engineering, product operations and data science. Aptitude to tackle complex social and technical challenges based on thorough critical thinking skills with experience across a broad array of applications and industries. Understands and balances interdisciplinary need of technology with respect for the human aspects and the need to arrive at competitive and social benefits. Works well across multiple functions and within the hierarchy. Trilingual, insatiable reader and described by peers as visionary, committed, caring and a good listener.

## EDUCATION

- University of Arkansas**, Little Rock, USA 2019 – Current  
PhD Candidate in Machine Learning, ORISE Fellowship (Awarded to most talented researchers by Dept of Energy)  
Andrew Crittenden Mitchell, Marian Williams Scholarship (Awarded for outstanding academic abilities)  
Advisors: **Xiaowei Xu, Professor of Machine Learning**
- University of Oxford** – Summer Semester, London, UK 2022  
• Machine Learning Fundamentals, ML for Healthcare
- University of Rhode Island**, Kingston, RI 2014 – 2017  
• Master of Science: Computer Science  
Thesis: “*Kodai: A Software Architecture, Implementation for Segmentation.*”
- SRM University**, Chennai, Tamil Nadu, India 2009 – 2013  
• B.Tech Computer Science and Engineering

## PUBLICATIONS

***Can Large Language Models using Attention Mechanisms be Creative?: A Review*** (Expected)  
Rick Rejeleene, Xiaowei Xu

***Kodai: Mathematical Framework Towards Creative Text Generation*** (Expected)  
Rick Rejeleene, Xiaowei Xu

***Prediction of Myocardial Infarction among South-Asian Population using Machine Learning*** (Expected)  
Rick Rejeleene, JL Mehta, Xiaowei Xu

***Creative Text Evaluation using Named Entity Recognition: A Comparative Method*** (Expected)  
Rick Rejeleene, Xiaowei Xu

***Youtube Video Characterization using Machine Learning*** (2021)  
Recep Erol (1), Rick Rejeleene (1), Richard Young, Thomas Marcoux, Muhammad Nihal  
International Aerosol Research Assembly (IARA)

***No-boundary thinking: a viable solution to ethical data-driven AI***  
Tayo Obafemi-Ajayi, Andy Perkins, Bindu Nanduri, Donald C. Wunsch II, James A. Foster & Joan Peckham (2020)  
AI and Ethics, Springer, *Manuscript Reviewer*

***Kodai: A Software Architecture and Implementation for Segmentation*** (2017)  
Rick Rejeleene, M.S Thesis, Software Engineering

## PROFESSIONAL EXPERIENCE

**University of Arkansas Medical School**, Little Rock, Arkansas, USA 2023 – Present  
**Machine Learning Researcher**, Dr. Jawahar Mehta

- Conducting in-depth research on applying cutting-edge machine learning algorithms to cardiology interventions
- Developing machine learning models to improve myocardial infarction diagnosis and prevention in South Asian populations at 4X greater risk
- Publish research papers documenting novel machine learning techniques to enhance myocardial infarction detection in leading medical journals.

**U.S Food and Drug Administration**, Jefferson, Arkansas, USA 2020 – 2023  
**Machine Learning Researcher**, National Center for Toxicological Research

- Formulated Novel Machine Learning Algorithm to measure and describe creativity
- Implemented Generative Models in deep learning (VAE, GAN, Seq2Sq Models) for image classification datasets
- Implemented Language Models (Transformers, BERT, GPT, YOLO, RCNN) for image classification datasets
- Executed Document Text Extraction (Cross-document object detection) to image classification dataset
- Presented PhD proposal quantifying creativity, “Kodai -- A Framework Towards Creativity in Machine Learning”

**COSMOS Lab** -- University of Arkansas, Little Rock, Arkansas 2019 – 2020  
**Software Engineer, Youtube Tracker**

- Designed jQuery scripts for building a new UI interface
- Developed feature in javascript for admin panel, thus improving interface
- Introduced novel machine learning idea of moviebarcode for summarizing videos
- Implemented novel idea of moviebarcode in Python into production ready code
- Researched Reinforcement Learning techniques for applying into moviebarcode in Python
- Managed codebase in GitHub for moviebarcode

**Triblio**, Reston, Virginia 2018 – 2019  
**Product Operations Manager**

- Managed advertisement portfolio of \$1.2 million USD
- Achieved advertisement budget growth to \$3.0 Million
- Developed automation test scripts for UI interface and features using Jasmine, Selenium
- Managed client issues involving both customer success and engineering team
- Troubleshooting bugs for customers in ad operation product

**Cru**, Orlando, Florida 2017 - 2018  
**Data Scientist**

- Developed pre-processing processes for data gathering, visualization, and analysis of data
- Facilitated creation of a strategic vision for Data Science Team
- Applied R and Python to curate dataset issues to address business KPI
- Performed data queries in Oracle OBE platform for data collection, cleaning of donation metrics
- Compiled and communicated technical data results to stakeholders

## Community Outreach

**Ace Academy**, Providence, Rhode Island 2017  
**Computing Research Outreach** - Winter/Spring

- Presented Research Work – Kodai, among high-school students, with Dr. Vic Faye Wolfe
- Developed a 3-month programming curriculum for Rhode Island High-school, with Dr. Vic Faye Wolfe
- Conducted CSC 101 class for 11th and 12th for web programming
- Established a new Data science curriculum class tailored to 50 Rhode Island high-school students
- Coached 20 high-schoolers, which helped them to gain admission in Computer Science programs in Rhode Island.

## **Bridges International – Affiliate Staff**

2014 – Present

- Founding Member of Bridges International, University of Rhode Island, USA
- Responsible for fundraising for Student Club
- Successfully raised funds over \$60,000
- Actively helped over 500 International students from 50+ countries to acclimatize with American culture
- Bibliophile, contributed summarizing to 500 books on Goodreads

## **TECHNICAL PROFICIENCY**

- Languages: Python, SQL, R, Unix Shell, CSS, HTML, C++, JavaScript, Java
- Tools: Jupyter Notebook, Pandas, Git, Trello, Google Colab
- Frameworks/Libraries: Spacy, HuggingFace, Django, NumPy, ElasticSearch, TensorFlow, Keras, scikit-learn, Matplotlib, Oracle OBIE, jQuery, AngularJS, PyTorch