Zakery Clarke

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Education

Master's of Computer Science

University of New Mexico   2019-2021
- ❖ Focus in Machine Learning & AI
- ❖ Thesis Research in NLP systems

Bachelor's Computer Science

University of New Mexico   2016-2019
- ❖ Presidential Scholarship & Dean's List
- ❖ Minor in Mathematics & Statistics

Work Experience

Health Rhythms- Machine Learning Scientist (2021-Current)
- ❖ Trained models to predict and prevent mental illness for at risk patients
- ❖ Created real-time ETL pipelines to process raw GPS and EHR data
- ❖ Led process of productionizing data sources and model development lifecycles

Dr Owl- Machine Learning Engineer (2019-2021)
- ❖ Led development of Advertisement platform and built Bayesian Recommendation Engine
- ❖ Designed ID verification service that saved over $500,000 in expenses by utilizing facial recognition and Machine Learning techniques
- ❖ Analyzed statistics on a platform with over 1 million users

E-Center- Co-Founder & Machine Learning Engineer (2018-2019)
- ❖ Analyzed E-Sports player performance through the use of Convolutional Neural Networks, Object Recognition and Machine Learning systems
- ❖ Created business plan and participated in start-up pitches to secure funding

E-TransControl- Software Developer (2016-2018)
- ❖ Created online payment portal to facilitate customer transactions
- ❖ Embedded Processor Development for transmission controllers in modified vehicles

Projects

Natural Language Processing- Thesis Project   https://zclarke.dev/thesis.pdf
- ❖ NLP thesis focused on learning intermediate representations for question answering
- ❖ Uses word vectors, text to text transformers, coreference resolution and other NLP techniques to generate inferred knowledge graphs from a passage of text

NM Apartment Advisors Rent Predictor   https://zclarke.dev/Apartment_Rent_Analysis
- ❖ Created a neural network model with less than 5% error rate to predict rent prices
- ❖ Used ensemble learning techniques to account for sparse sample data

Heelr AI Tracking Tool   https://github.com/zakerytclarke/event_tracking

  ❖ Tool that uses AI to determine UX pain points using advanced tracking
  ❖ Advanced tracking features including DOM analysis, recording and playback

Solomon.ai   https://github.com/zakerytclarke/solomon

  ❖ Created tool to automatically clean and visualize data, and build machine learning models
  ❖ Publicly available under open source license

Computational Paper   https://zclarke.dev/computationalPaper/

  ❖ Drawing app that utilizes machine learning handwriting recognition
  ❖ Features mathematical equation solving and automatic graphing

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Skills

Languages: Python, JavaScript, Node JS, Haskell, Java, C++, C, SQL, MongoDB, No-SQL, Object Oriented Programming, Functional Programming

Libraries: Pandas, Numpy, Scikit-learn, Keras, Tensorflow, Hugging Face, Spacy NLP, Catboost

Soft Skills: Communication, Self-Starter, Leadership, Teamwork, Problem Solving, Detail Oriented, Quick Learner, Interested in new technologies

Techniques: Machine Learning, Artificial Intelligence, Neural Networks, Natural Language Processing (NLP), Image Recognition, Clustering, Data Science, Data Visualization, Continuous Integration/Continuous Deployment (CICD), HIPPA Certification

Technologies: Github, Databricks, Delta Lake, AWS, S3, AWS Cognito, Cloudfront, Elastic Beanstalk, Linux, Unity, Express, React, React - Native, Agile/Scrum, Flutter, Git,