

TUCKER ARRANTS

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GitHub ♦ LinkedIn ♦ Kaggle

EDUCATION

Chapman University, Orange, CA

Bachelors of Science with Honors, Physics

May 2020

Magna Cum Laude

Institute for Quantum Studies Undergraduate Research and Creative Activity Award

Bachelors of Arts with Honors, Philosophy

Magna Cum Laude

Mike W. Martin Award of the Year in 2018

TECHNICAL SKILLS

Programming: Python, R, Git, SQL, MATLAB

Libraries: NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch

Software: Tableau, Power BI, Microsoft Excel

PROFESSIONAL EXPERIENCE

Pacific Life

Data Analyst Intern

May 2020 - Present

- Aided HR in building out their digital capabilities by creating automated reports in Power BI and holding training sessions for team members on relevant technologies
- Established a baseline for the company's recent cultural transformation efforts by analyzing employee survey responses and published results to Teams as interactive dashboards
- Applied natural language processing techniques to feedback responses to evaluate the effectiveness of cultural change initiatives (LDA topic modeling and n-gram analysis)
- Scraped websites for corona-virus updates to automate return-to-work reports with Python and Selenium

INDIVIDUAL PROJECTS

Transfer Learning with Image Classification



- Imported popular pre-trained models (Xception, DenseNet, EfficientNets) with TensorFlow and tested them on different computer vision tasks
- Tested different image augmentation strategies from standard techniques and newer practices like CutMix, AugMix, and mixup
- Successfully trained an ensemble of models on over 130 gigabytes of image data in under 3 hours using cloud TPUs

Understanding Natural Language with Machine Learning



- Explored different machine learning models from logistic regression to deep neural networks for text classification, generation, and textual entailment
- Developed a text augmentation technique based on translating words to random languages and back to their original language with Google translate

CERTIFICATES AND PROFESSIONAL DEVELOPMENT

- **TensorFlow in Practice Specialization** by deeplearning.ai on *Coursera* [[Verify here](#)] *July 2020*
- **Deep Learning Specialization** by deeplearning.ai on *Coursera* [[Verify here](#)] *July 2020*
- **Machine Learning** by Stanford on *Coursera* [[Verify here](#)] *June 2020*