TUCKER ARRANTS

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GitHub ◇ LinkedIn ◇ Kaggle

EDUCATION

Chapman University, Orange, CA   *May 2020*
Bachelors of Science with Honors, Physics   *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 publishing 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)

INDIVIDUAL PROJECTS

Transfer Learning with Image Classification

- Imported popular pre-trained models (Xception, DenseNet, EfficientNet) with TensorFlow and tested them on various computer vision tasks
- Experimented with different image augmentation strategies from standard practices to newer techniques like CutMix, AugMix, and mixup
- Successfully trained an ensemble of models on over 100 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 Developer Professional Certificate** 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*