Geoffrey Gordon Ashbrook Data Scientist Portfolio Github Linkedin

Bala Cynwyd, PA 303-859-6738 Mobile & Text geoffreygordonashbrook@gmail.com

Purpose

Make commerce better for everyone using data.

Vision

Statement

Data Scientist, whose experience in Al research started in 2002, with an interest in language comprehension, consciousness, nonlinear dynamical systems, machine ethics, and bio-ecology. Sees communication, storytelling, best practice, Agile project management, cultivating lifelong learning in diverse interdisciplinary teams, and utilizing data as critical for business & societal solutions.

Skills

3.5+ Years: Python | R | C | HTML | SQL | spaCy | Linux | Natural Language Processing | Amazon AWS: Elastic Beanstalk, EC2, Sagemaker, ACM, Route53 | REST API Endpoints | ML Machine Learning | NN Neural Networks | Deep Learning | Recommendation | Clustering | Analysis | Unit Testing | Heroku | Flask | Diango | Plotly Dash | Jupyter | Colab | Anaconda | NumPy | Pandas | sklearn / Scikit-Learn | scipy | Matplotlib & Seaborn | Keras / TensorFlow | Data Visualization | Statistics | Hypothesis Testing | Model Validation | Data Structures | Algorithms | Biology | Teaching | Agile | SCRUM | 6sigma

Projects

Sanctions Website, Center for Advanced Defense Studies, Medium Blog, 2020

- Conducted NLP entity-extraction on unstructured documents for data mining and Engineered data **search** in Python
- Supported date-time-search graphical display with cross-functional team: 5-web, 1-UX, 3-DS 8-week **Agile** project
- Designed schemas for modeling networks of **NLP**-entities
- Integrated World-Bank-API data sets with NLP-mined engineered data
- Prioritized and streamlined group production goals and delivery schedule

Natural Language Processing Recommender, Github Repo, 2020

- Adapted NLP Basilica (word-vector) embeddings via Python to match patient symptoms and medicine-effects to database of **3k**+ treatment options
- Achieved high accuracy (100% accurate fuzzy matching)
- Deployed Heroku plotly-dash & Team-Site Machine-Learning Powered Medicine Recommender
- Collaborated with cross-functional team 1-UX, 2-ML, 4-Data Engineer, 2-Backend, 2-Frontend

Data Engineering, Reddit-Post Recommender, Github Repo, 2019

- Lead and re-organized short-handed team accomplishing goals on a tight schedule
- Managed goal reorganization and product design
- Collaborated with cross-functional team: 2-Frontend, 1-Backend, 2-Machine Learning, 1-UX, 2-Data-Engineers
- Employed Flask and Python, for pre-ML training-scraping, DS-API and backend REST API

Al Augmented Meeting Moderation Software with Skip Ellis, CU Boulder, Project Neem, 2003

- Collaborated with Prof. Clarence (Skip) Ellis and PhD candidates
- Aimed to achieve zoom-like tele-meeting framework with an ELIZA-like NLP expert-system to assist users with both secretarial-logistics and cultural-mediation tasks
- Produced Human Computer Interactions foundation for Agent design

Experience

Science & Language Edu | Instructor 2006-2015 US, Japan

- Explained technical topics to wide variety of clients
- Broke down large projects into **testable**, operationally defined, smallest parts
- Completed projects that depended on Agile management for delivering stakeholder goals
- Instructed clients from preschool level to company directors, in a variety of sites/roles; responsibilities included assessment, hiring, materials creation, program and curriculum design
- Received consistent very positive client feedback on performance

Education

Lambda School | Remote 9+month Data Science & Computer Science Program 2019-2020 University of Colorado, Boulder | BA in Biology, Science-Teaching Cert & Licence 1996-2005