Vinay Dinkar Kale

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EDUCATION

Columbia University
M.S. Data Science

NYC, New York

Sep 2017 - Dec 2018

Email: vinaykale64@gmail.com

Relevant Coursework: Probability Theory, Statistics, Machine Learning, NLP, Deep Learning, Algorithms, Data Storytelling

Indian Institute of Technology Madras (IITM)

Chennai, India

B. Tech Mechanical Engineering, M. Tech Product Design

Aug 2011 - May 2016

Relevant Coursework: Computational Engineering, Time Series Analysis, Regression Models, Operations Management

SKILLS

• Languages Python, R, SQL, Spark, Scala, Julia, C, C++, LaTeX

• Frameworks Scikit, Dask, Plotly, Dash, TensorFlow, Keras, PyTorch, RShiny, Django, Flask, Tableau, MS Office

• Platforms Docker, GIT, Airflow, MySQL, Linux, AWS, GCP, Microsoft Azure, Heroku, Jenkins, Travis

EXPERIENCE

Capital One

New York

Senior Data Scientist

Feb 2019 - Present

- \circ Developing robust and reusable next-gen valuation, risk and fraud XGBoost ML model pipelines reaching 100M+ customers, with estimated incremental value of \$35M per year.
- Architected agile and automated monitoring framework for valuation models, decreasing the time required to complete quarterly compliance-monitoring from a week to 8 hours.
- Built python libraries for Data Sourcing and Cleaning with focus on design, re-usability and user experience. Went through multiple refactor cycles to keep it efficient and up-to date.

Spotify
Data Science Intern

New York
Jun 2018 - Aug 2018

- Working with cross-functional team of user researchers and product analysts, developed a fan-artist pair segmentation pipeline which quantifies the affinity for 20 Billion fan-artist pairs.
- Analyzed how a new video overlay feature affects a typical fan-artist journey in terms of engagement metrics, by statistical analysis on data from AB tests. Confirmed the results by running a customer survey.
- Assisted on building optimised data pipelines through Google Bigquery and redesigning artist tiering dashboard.

ZS Associates

Pune, India

Data Scientist

June 2016 - July 2017

Data Scientist

June 2016 - July 2017

o Developed marketing-mix modeling pipeline using multivariate regression for client in retail media sector.

Increased Total ROI by 15 percent and secured engagements for 3 similar additional projects.

- Built a novel Patient Clustering Engine for pharmaceutical clients using patient-data vector embeddings trained on sequential big medical data. This served as input to several patient-level classification models.
- Led initiative for reproducibility within the company by on-boarding projects with git version control and a fostering culture of consistent user documentation.

Research

CVPR Conference 2018: Traffic Surveillance Research Paper

• We introduce novel usage of Mask-RCNN algorithm for vehicle detection, speed estimation and vehicle tracking for video footage of cars in highway. Achieved 100 percent detection rate and 7.97mi/hr speed estimation error.

PROJECTS

Euphony: Python Package on PyPI

• Built a utility which lets users track code completion. With a simple wrapper, it plays classical music while the code is executed. Users can choose among range of artists.

Market-Monitor: Live web-app to monitor financial markets

• Developed an app which lets user study stock and options prices with latest news for any company, all in one place. It uses Yahoo Finance APIs for data, Dash library for visualization and Heroku for app deployment.

VOLUNTEER EXPERIENCE

Organizing Committee, PyData Conference NYC

June 2019 - Sep 2019

Led team for reviewing proposals and spearheaded the Diversity Scholarship Initiative

Teaching Assistant, Columbia University

Jan-Apr/Aug-Dec 2018

COMS 4995 Applied Machine Learning, COMS 4996 Applied Deep Learning.