415-260-7619



Portfolio ... http://www.manukalia.net
Articles ... http://www.manukalia.net/blog
Python code ... http://www.github.com/manukalia
LinkedIn ... http://linkedin.com/in/manu-kalia-sf

A curious, persistent, and articulate finance executive, data scientist, and strategist, skilled in turning chaos into order, and coaxing insights from noise. Inspired to solve "big" problems that improve life for many people ... their health, happiness, wallets, and environment.

TECHNICAL PROFICIENCY: Python, Pandas, Scikit Learn, Numpy, Scipy, PostgreSQL, Supervised- and

Unsupervised Machine Learning, Natural Language Processing, PCA/ SVD, Keras, Neural Networks, Bayesian inference, Web scraping, AWS, Docker, GitHub, Apache

Spark/ DataBricks/ Scala, clustering methods (k-means, DB scan, LDA), Data

Visualization (GGplot, Tableau, Matplotlib), GitHub, ETL

FUNCTIONAL EXPERTISE: Operational finance leadership, stragegy, Board & investor communications,

quantitative analysis, M&A, FP&A, recruiting & team building

DOMAIN EXPERTISE: Electric utilities and smart-grid management, cloud computing, renewable energy,

block-chain/ distributed ledger technology

RELEVANT EXPERIENCE

CAMBRIAN.AI Berkeley, CA

Finance Director & Head of Data Science, Sept. 2019 – Present

Seed stage company to employ ML and bots to protect user data ownership and privacy. NLP project submitted for NSF grant for a bi-RNN to classify (unsupervised) legal clauses in any online privacy policy, and to classify (supervised learning) each clause by impact on user data privacy. Written several claims (as they pertain to data science) of provisional patent filing.

GREENSPARC INC San Francisco, CA

CFO & Data Scientist, Apr 2014 - Present

ETL, data cleaning and PostgreSQL dbase construction; time-series ML & neural net modeling (ARIMA, SARIMAX, RNN) to deliver nation-wide, real-time energy markets data for operators of data center fleets. Back-tests show that our data science-based algorithm can deliver 20%+ annual energy cost savings while *simultaneously* increasing renewable energy consumption by 10% or more.

INDEPENDENT PROJECTS San Francisco, CA

Staff Contributing Writer, Medium.com "Better Programming", June 2019 - Present

- Califoria Energy Price Fetching Utility ... PysimpleGui, Pandas, APIs, Python
- Ames Iowa Real Estate Price Inference ... Python, Pandas, Scikit Learn, Statsmodel
- Subreddit Classification (Science fiction vs. Physics & Astronomy) ... Scikit Learn
- FEMA Early Disaster Condition Monitoring & Alerting ... AWS plus full stack above
- Calif. Electricity Price Prediction w/ Recurrent Neural Nets ... full stack above + Keras RNN

POWERCHOICE INC / GREENSPARC ENERGY ADVISORS

Co-founding Partner & Quantitative Modeler, 2009 - 2014

San Francisco, CA

Energy program consultancy that won and negotiated city of SF PUC's municipal energy program (CCA) to replace PG&E in SF... 20-yr, \$8 billion plan. Modeled the complete city's electricity tariff (pricing) structure for all residential and commercial customers, including rolling price forecast.

manu kalia

CROWNBUTTE WIND POWER INC (now NACEL ENERGY)

Bismarck, ND

CFO & Quantitative Analyst, 2007 - 2008

Built wind energy development models (based on tower anemometer data) for 600MW spread across 12 projects in Western ND and Eastern MT. Negotiated PPA with local utility MDU. Raised private capital, then wrote & issued S-1 SEC registration statement to list Crownbutte on OTC market. Merged with Nacel Energy Corp.

ARC INTERNATIONAL (now SYNOPSIS)

San Jose, CA

FP&A Director & Interim CFO, 2002 – 2006

Quant. models ownership for all G&A functions ... finance, M&A, investor relations, IT & HR. Includes models for: budgets, rev forecasts, variances, pricing, M&A, tax, xfer pricing, audit, & comp plans.

TRADEWORX INC New York, NY

CFO & Lead Business Analyst, 2001 – 2002

Quant analytics and web-based proprietary trading tools for individuals. Secured CNBC and the US SEC as customers. Transitioned to a proprietary quant ELSA hedge fund and high-frequency trader.

COMMONWEALTH ASSOCIATES

New York, NY

Networking & Telecom Deal Team Lead, 1999-2001

Evaluated over 2,000 small-cap/ micro-cap tech companies for possible PIPE investments. Screened down to two dozen due diligence candidates. Completed 6 deals for ~\$100 million in financing.

SANFORD C. BERNSTEIN & CO (now ALLIANCE CAPITAL)

New York, NY

Telecom Equip & Data Networking Equip Analyst, 1998 – 1999

Created market, revenue, and earnings models for publicly traded companies: Lucent, Cisco, Ascend, Bay Networks, Nortel, US Robotics/ 3Com, Alcatel, Ciena.

BELL LABORATORIES (AT&T → LUCENT TECHNOLOGIES)

Murray Hill, NJ

Quantitative Models Planning Manager, 1995 – 1998

Scenarios-based planning leader for \$5 billion+ project to extend bi-directional optical-fiber networks. Company wide leadership on implementation of Monitor Consulting's scenario-based planning discipline.

EDUCATION

TUCK SCHOOL OF BUSINESS ADMINISTRATION AT DARTMOUTH COLLEGE

Hanover, NH

MBA, General Management ... 1995

DARTMOUTH COLLEGE

Hanover, NH

A. B. cum laude, Engineering Sciences ... 1993

GENERAL ASSEMBLY

San Francisco, CA

Data Science Immersive Program, Spring 2019