Abhinay Korukonda

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EDUCATION

University of California, Berkeley — Haas School of Business, *Berkeley, CA*
Master of Financial Engineering — *Mar. 2018 – Mar. 2019*
GPA: 3.88 / 4.00

Indian Institute of Technology, Bombay, *Mumbai, India*
Bachelors of Technology in Chemical Engineering — *Aug. 2011 – Apr. 2015*
Awarded Full-Tuition Scholarship
All India rank 610 among half a million students appearing for entrance examination to IITs

WORK EXPERIENCE

PIMCO, *Newport Beach, CA*
Rotational Internship in Quantitative Portfolio Management & Quantitative Research — *Oct. 2018 – Dec. 2018*
- Constructed successful systematic equity strategies adjusting for exposures to countries, market, sectors and T-costs.
- Implemented Carry, Rolldown signals for repo-funded off-the-run US treasuries in Python for production

Linedata, *Mumbai, India*
Analyst — *May. 2015 – Mar. 2018*
- Managed portfolio analytics & market risk models for global macro funds. Clients: Discovery Capital, KeySquare Group
- Supported Investment team by providing statistical insights on structured products and macro indicators. Clients: GAFG
- Presented performance attribution, market views based on P&L drivers, and risk reports to clients

QUANTITATIVE RESEARCH PROJECTS

Factor Timing and Sector Allocation using Regime Switching Models
Guide: Dr. Ronald Kahn, MD, BlackRock — *Jan. 2019 – Mar. 2019*
- Used Hidden Markov models for asset allocation in sectors and dynamic factor ETFs under the assumption of 2 regimes
- Backtested portfolios had higher Sharpe, lower skew, kurtosis, drawdown compared to benchmark and baseline models.

Style Investing in Corporate Bonds
Guide: WeatherStorm Capital, San Fransisco, CA — *Jul. 2018 – Oct. 2018*
- Generated uncorrelated signals using Python in IG & HY constituent bonds based on bond and fundamental data
- Backtested portfolios (>1.2 IR) based on single & combined signals of Value, Momentum, Carry, and Defensive

Systematic Underpricing in Convertible Bonds
Guide: Systematic Fixed Income, BlackRock — *Jul. 2018 – Oct. 2018*
- Built trading strategy based on convertible bond mispricing by implementing trinomial tree pricing models in Python

DATA SCIENCE PROJECTS

Forecasting Magnitude of Corporate Spread Changes
IAQF Academic Paper Competition, 2019 — *Jan. 2019 – Feb. 2019*
- Achieved out of sample 0.2 R^2 on corporate spread change forecasts using Elastic Net models by using artificially constructed, and known market features.

Machine Learning for Asset Allocation
Guide: Dr. Carolina Galleguillos — *Sep. 2018 – Oct. 2018*
- Determined asset allocation weights of S&P 500 stocks using clustering methods on returns correlation matrix
- Backtested strategy had lower variance and higher returns compared to Markowitz or Risk Parity methods

Machine Learning Models for Recovery Value
Guide: Dr. Terry Benzschawel, Benzschawel Scientific LLC — *Sep. 2018 – Feb. 2019*
- Improved error on prediction of recovery value using ensemble methods on corporate defaults data

SKILLS & OTHERS

Mathematics: Econometrics, Probability Theory, Optimization, Stochastic Calculus and Monte Carlo Simulation,
Machine Learning: Generalized Linear Models, Dimensionality Reduction, Neural Networks, and Ensemble Methods.
Finance: Portfolio Management, Quantitative Investing, Backtesting, and Volatility Modeling.
Computer: Excellent in Python, and Bloomberg. Proficient in R, C++, SQL, and VBA.
Certifications: FRM by GARP
Interests: Strategy Games, Music, Adventure Sports