AVIJIT SINGH NALWA

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EDUCATION

University of California, Los Angeles (UCLA) – Department of Mathematics — **Los Angeles, California**

Bachelor of Science in Financial Actuarial Mathematics: GPA 3.77/4.0 | GMAT: 740 (97th percentile) — *March 2021*

- Dean's Honors List: Winter 2021, Fall 2020, Winter 2020, Spring 2020, Fall 2018, Winter 2018, Spring 2018
- UD Coursework: Financial Mathematics, Real Analysis, Probability, Statistics, Numerical Methods, Actuarial Mathematics

WORK EXPERIENCE

Root Insurance (*Unicorn InsurTech with recent IPO*) **[Returning full-time as an Actuarial Analyst]** — **Columbus, Ohio**

Actuarial Intern, Actuarial Pricing: Tooling — *June – September 2020*

- Built a time series analysis that tracked the company's overall risk exposure levels, mix of business, and identified potential mispricing.
- Improved runtime by 75% while introducing new features. The analysis provided insight into the effects of COVID19 on the business.
- Created a novel feature selection method that consistently provided higher accuracy with fewer predictors than industry SOTA methods.
- Created and presented educational materials to the Pricing team and other interns on actuarial topics and feature selection approaches.

Siegel+Gale (*Brand Consulting & Strategy*) — **Los Angeles, California**

Insights Intern, Research & Insights — *June – August 2019*

- Created an end to end brand segmentation analysis in R using clustering and improved runtime by 50% using parallel computing.
- Built Natural Language Processing and Topic Modeling tools in R that discovered brand themes from qualitative interviews.
- Designed a client facing brand equity survey and collected strategic research from stakeholder interviews for VISA's brand architecture.
- Identified and presented new insights by conducting a research audit that resulted in a new positioning strategy for Lam Research.
- Built a user typing tool within R for name validation and segmented brand perception research for NBC Universal (Peacock streaming).
- Created and presented 2 new research driven Employee Value Propositions to company leadership in collaboration with all interns.

Green Hasson Janks (*Accounting, Tax, and Consulting*) — **Los Angeles, California**

Technology Solutions Intern, Tax & Audit — *April – June 2019*

- Analysis: Improved the efficiency of a custom automated billing solution by redesigning the excel data-table structure & reducing computational complexity. Resulted in reduced runtime, product creation, and improved department productivity.
- Identified a revenue model for a business-facing tax deduction optimization product and improved its efficiency by reducing compute.

The Princeton Review (*Education*) — **New Delhi, India**

Consulting Intern, Revenue & Partnerships — *July – August 2018*

- Data Analysis: Optimized marketing strategy and operations efficiency by creating a statistical analysis of performance data by region.
- Market Research: Provided differentiation and an understanding of market segmentation through competitor research and analysis.
- Product Development: Created a new career counseling product by analyzing employment growth, skill deficit, and median pay labor statistics across highly targeted destinations. Identified high impact partnerships for revenue growth; presented findings to leadership.

LEADERSHIP & EXTRACURRICULARS

UCLA Impact Investing Group — **Los Angeles, California**

Vice President of Education, Head of Sourcing & Due Diligence — *August 2020 – Present*

- Created a curriculum & educational course materials to teach impact investing, impact metrics, asset classes, derivatives, financial statements, risk, diversification, and portfolio construction to the analyst class.
- Gave weekly lectures to an analyst class of 17 UCLA students that included interactive discussion sections on impact investing.
- Created the newsletter research content to explain the latest developments within academia on impact strategies and frameworks.
- Led a team of 8 Analysts to analyze early-stage impact startups and create investment memos by attending VC pitch events.

UCLA Student Government | Project Links: 1, 2, 3, 4, 5 — **Los Angeles, California**

Director: Technology Impact (2019), Outreach (2020), Office of the Internal Vice President — *January 2019 – Present*

- Recruited and led a team of developers and designers to create the official website for the office, providing resources to 30k students.
- Increased funding accessibility for 1000+ student organizations by creating a filterable search for eligibility and funding needs.
- Created an interactive data visualization website that improved financial transparency for the distribution of over $10 million in funding.
- Built an interactive social justice & advocacy volunteering search portal providing a curated list of over 150 social impact organizations.
- Created a natural language processing web app that summarizes student government feedback and analyzes sentiment and objectivity.

UCLA Undergraduate Mathematics Students Association — **Los Angeles, California**

Mathematics Mentor — *July 2020 – Present*

- Mentored undergraduates within the mathematics department on class planning, major selection, professional development, resume creation, cover letter writing, research applications, and independent projects; provided academic guidance for specific class material.

MACHINE LEARNING PROJECTS

Predicting Exact Wine Quality Ratings - GitHub — **Los Angeles, California**

Stacked Ensemble: Deep Neural Network Meta-trainer with 3 base models in Python & Data Visualization — *May 2020*

Handwritten Number Recognition WebApp - Link — **Los Angeles, California**

Convolutional Neural Networks & Data Augmentation in TensorFlow, Flask Framework, Web Development — *April 2020*

Movie Recommendation System - GitHub — **Los Angeles, California**

Collaborative Filtering via Singular Value Decomposition & Stochastic Gradient Descent — *March 2020*

Programming Languages: Python, R, SQL, C++, HTML, CSS, JavaScript; VCS: Git.

Courses: Brown University Leadership Institute, *Scholar*. CERN Particle Physics, *Research Trainee*. Wharton Online, *Entrepreneurship*.
Interests: Actuary, Social Impact, Entrepreneurship, Impact Investing, Product Management, Music Production, Table Tennis, Puns.