Vatsal Nanawati

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PROFILE

Master of Science in Business Analytics candidate at UC Davis. Analytics professional with over 2 years of experience in leading and collaborating with business-driven teams. Proven expertise in designing and implementing automation techniques and risk management solutions, driving enhanced fraud detection and operational efficiency within telecom and financial sectors.
Specialties: Exploratory Data Analysis, Revenue Assurance & Fraud Management, Statistical Exploration, Data Visualization, Supervised and Unsupervised Machine Learning, Experimental Design and Analysis, Model Benchmarking
Technologies: R, SQL, Python, Tableau, Power BI, CSS, Advanced Excel

EDUCATION

University of California, Davis   **San Francisco, CA**
Master of Science, Business Analytics (GPA 3.2/4.0)   Expected Aug, 2025

Highlighted Coursework: Data Management, Advanced Statistics, Big Data, Cloud Computing, Machine Learning

Manipal Institute of Technology (MIT),   **Manipal, IND**
Bachelor of Technology, Mechatronics (Robotics Minor) (3.2/4)   July, 2022

PROFESSIONAL EXPERIENCE

KPMG   **Bangalore, IND**
Associate Consultant   July 2022 – June 2024
A trusted partner for risk management & compliance services across Telecom, Data Analytics & Media sectors

- **Fraud Detection**: Directed strategic collaborations with Southeast Asian & Middle East Telecom Companies, specializing in Revenue Assurance & Fraud Management, reducing fraudulent activities by 18%
    - Utilized Machine Learning algorithm such as Random Forests, Gradient Boosting Machines (GBM) & root cause analysis to detect anomalies in transactions, reducing fraud-related losses
- **Data Privacy & Validation**: Partnered with a leading financial service institution to implement critical data privacy measures such as Data Masking and Tokenization to enable zero data breaches on customer interface levels.
    - Conducted comprehensive data validation on Revenue Assurance datasets using SQL, Python, and advanced Excel techniques, identifying and correcting inconsistencies to improve data accuracy and integrity, reducing billing discrepancies by 15%.
- **Process Optimization:** Monitored frameworks for risk and control functions and evaluated the control environment through automated alarms on the Subex RAFM platform, reducing 500 man-hours per month, saving around $25,000 monthly.
- *Achievement:* Received the Kudos award, for supporting Team members with selected proposal building activities & ad-hoc assignments, with the added ability of multi-tasking

Neurosensum   **Jakarta, ID**
Project Intern   Nov 2020 – Dec 2020
A neuroscience & AI-driven consumer research firm specializing in uncovering consumers' subconscious responses

- **Project Execution:** Collaborated with a 12-member interdisciplinary team to create work plans, strategies, and timelines for diverse ongoing projects in areas of Eye Tracking and EEG mapping
- **Data Analysis**: Assisted in providing business solutions by collecting, storing, and analyzing consumer product interaction data obtained from Myndsight (EEG and Eye tracking based solutions)
- **Visualization:** Ran proprietary ML (Random Forests) algorithms coded using python to assess the data and build a heat map to track consumer focus with respect to brand recall for a select CPG product

ANALYTICS PROJECTS

- **COVID-19 X-ray Detection with PyTorch (Jan 2020):** Used a ResNet-18 model to classify a dataset of around 3000 Chest X-Ray scans into 3 classes: Normal, Viral Pneumonia & COVID-19 for COVID-19 detection.
- **Cough Detection with TinyML on Arduino (March 2021):** Utilized machine learning (K-Nearest Neighbors (KNN)) on an Arduino Nano BLE Sense for real-time audio analysis to identify the occurrence of coughing.

ADDITIONAL QUALIFICATIONS

Leadership:

- **Data Base & Logistics Head - Society of Automotive Engineers, MIT (2020 – 2022):** Spearheaded and organized 10+ data science and engineering workshops, introducing students to data analysis, machine learning, and CAD tools (e.g., CATIA, SolidWorks) while enhancing practical knowledge. Developed organizational and data management skills, directly applicable to business analytics by coordinating logistics and data handling for 60+ participants, aligning technical learning with strategic business goals.

Activities:

- **NCC (National Cadet Corps) – Karnataka Engineering Company (2020 – 2021):**
  - Participated in multiple national camps, honing leadership and discipline through structured military training.
  - Engaged in social service initiatives such as cleanliness drives and disaster relief efforts.
  - Developed physical endurance and tactical skills through regular drills, obstacle courses, and rifle shooting practice.