

Siddharth Deepak

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EDUCATION

B.S. in Business Analytics and AI | Concentration in Marketing and AI

Anticipated Graduation: Dec 2027

The University of Texas at Dallas – Naveen Jindal School of Management, Richardson, TX

RELEVANT COURSEWORK

Data Science for Business Applications, AI in Business, Business Analytics, Marketing Analytics, Foundations of Business Intelligence, Database Analytics, Object-Oriented Programming in Python, Quantitative Business Analysis, IT for Business, Managerial Methods in Decision Making

TECHNICAL SKILLS

Languages: Python, SQL, R, HTML/JS/CSS, TypeScript	Libraries: Pandas, NumPy, LightGBM, HistGBM, Optuna, Matplotlib, Seaborn
Tools: Tableau, Power BI, Excel, Git, SQLite, Three.js, Chart.js, Firebase	Concepts: ML Modeling, A/B Testing, Statistical Hypothesis Testing, Time-Series Forecasting, EDA, Data Cleaning, Walk-Forward Backtesting

PROFESSIONAL EXPERIENCE

YMCA Central Texas — Summer Camp Counselor

May 2021 – Aug 2025

- Led and mentored groups of 15–25 campers, fostering a safe and inclusive environment focused on growth and positivity
- Trained and onboarded new counselors through structured shadowing programs, providing guidance on group management
- Awarded Counselor of the Week (5x) and Rookie Counselor of the Year for leadership and impact on camper experience

PROJECTS

Data Science & AI Portfolio — 14 Live Projects

siddeepak2023.github.io

HTML | CSS | JavaScript | Three.js | Chart.js | Canvas API

- 14 live projects: production AI SaaS apps, ML prediction engines (NBA, S&P 500, flight delays), BI dashboards (dermatology, retail, e-commerce), sports betting analytics, A/B testing, and a real-time 3D universe explorer — all custom-built

Superfast Insights AI — AI Business Intelligence SaaS

[Live App](#)

React | TypeScript | Firebase | OpenAI GPT-4o | Stripe | Node.js | Tailwind CSS | Vite PWA

- Production SaaS that converts CSV/Excel uploads into GPT-4o-powered revenue trends, anomaly alerts, and **90-day cash flow forecasts** in under 60 seconds; live with real users
- Architected end-to-end: React PWA, Firebase Auth/Firestore/Storage, Node.js Cloud Functions with Zod validation, OpenAI structured JSON output, and **Stripe subscription billing** (Free / Pro / Business) with webhook handling

HypeClip AI — AI Video Clipping SaaS

[Live App](#)

Next.js 16 | TypeScript | Firebase | Stripe | Node.js | Cloud Functions | App Hosting

- Production SaaS detecting viral moments in Twitch VODs and YouTube via chat velocity spikes; auto-cuts clips and generates captions, titles, and hashtags for TikTok, Shorts, Twitter/X, and Reels
- Built end-to-end: Next.js 16 App Router on Firebase App Hosting, Firebase Auth/Firestore/Storage, Node.js Cloud Functions, and **Stripe billing** (Free / Creator / Pro) with auto-rollouts on git push

NBA Game Intelligence Dashboard

[Live Dashboard](#)

Python | HistGBM | Optuna | nba_api | SQLite | ESPN API | Chart.js

- Prediction pipeline on 9 seasons / 21,498 game logs; Elo, defensive rating, multi-window rolling features, EWMA; HistGBM + Optuna lifted AUC 0.631 → **0.726**; backtested: **71.1% win rate, 35.8% ROI, \$34,301 simulated profit**

U.S. Flight Delay Intelligence Engine

[Live Dashboard](#)

Python | LightGBM | BTS Data | Pandas | Chart.js | HTML/JS

- LightGBM classifier on **72M+ BTS domestic flights** (2015–2024); **84.7% accuracy, AUC 0.891**; route-level risk atlas across 5,248 O-D pairs with airline reliability index and airport bottleneck heatmap

ORGANIZATIONS

Delta Epsilon Psi — Social Chair, Recruitment Chair

2023 – 2025

Organized social events and recruitment initiatives supporting chapter growth and member engagement

UTD Focus — Member

2026 – Present

ANCHOR InterVarsity — Member

2026 – Present

Tabla Talim Sanstha — Member

2015 – Present