RAUNAK DEY

IIT Madras
B.S. Degree

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SUMMARY

Data Science student with hands-on experience in quantitative research, full-stack web development, and financial analysis. Skilled in Python, SQL, Flask, Vue 3, and Next.js. Proven track record in algorithmic trading strategies (WorldQuant Gold Consultant, top 200 in International Quant Championship 2024). Adept at building scalable applications with Redis, Celery, and Docker, while translating complex datasets into actionable insights.

EDUCATION

Indian Institute of Technology   Chennai, Tamil Nadu
Diploma Level - Bachelors in Data Science and Applications   *Sep. 2022 – Aug 2026*

SKILLS

Languages: Python, Java, JavaScript, TypeScript   **Frameworks**: Flask, Next.js, Vue 3, React, Node.js
Databases: PostgreSQL, MySQL, SQLite   **Data/ML**: Pandas, NumPy, Matplotlib, Scikit-learn
Tools: Git, Docker, Redis, Celery, Power BI, Excel   **Other**: Data Analysis, Visualization, Financial Modeling

EXPERIENCE

Quantitative Research Consultant   April 2024 – Present
WorldQuant   *Remote*
- Analyzed and developed alphas with June 2025 performance stats: avg. 5 operators per alpha, 25 unique operators used, 2.47 fields per alpha (28 total), and 15 signals developed
- Successfully completed 4 pyramids across News, Options, Price-Volume, and Social Media datasets
- Achieved combined alpha performance of 0.82 and combined Power Pool alpha performance of 1.12, contributing to robust signal generation

PROJECTS

Fin-alysis | *Next.js, TypeScript, Netlify*   May 2025 – June 2025
- Built a full-stack stock analysis platform implementing Altman Z-Score, Piotroski F-Score, Beneish M-Score, and Ohlson O-Score for company financial evaluation
- Integrated real-time data from Yahoo Finance (using Yahoo Finance2 Library) with serverless Next.js API routes and deployed on Netlify at fin-alysis.netlify.app
- Implemented responsive UI with SWR caching, and production optimizations achieving 85+ Lighthouse scores

SpotOn Parking App | *Flask, SQLite, Vue3 (CLI + Vite), Redis, Celery*   July 2025 – August 2025
- Developed a full-stack parking management app with real-time availability, deployed at spoton-parking.vercel.app
- Optimized backend APIs (Flask + SQLite) with Redis caching, reducing response time by 40%
- Implemented JWT authentication and Celery-based task scheduling for secure, scalable performance

ACCOMPLISHMENTS

International Quant Championship 2024   March 2024 – June 2024
WorldQuant
- Achieved global rank of 165 in Stage 1 and 184 in Stage 2 among thousands of participants worldwide
- Contributed to a team OS Score of 36,000+, leveraging 24+ data fields for advanced financial modeling
- Collaborated in a two-member team to design and implement scalable alpha strategies under competition pressure

EXTRA-CURRICULAR ACTIVITIES

Deputy Secretary   March 2024 – August 2025
Diplomacia, the IITM Soft Skills Society   *SA Contribution Certificate*

Marketing Team Volunteer   August 2024 – December 2024
Student Placement Council, IITM BS Degree   *SPC Impact Report*