

Kshitiz Kumar Sinha

Patna, Bihar, India — kshitiz23kumar@gmail.com — +91 8409853800
linkedin.com/in/kksinha23 — github.com/Erebuzzz

PROFESSIONAL SUMMARY

B.S. student in Engineering Sciences at IISER Bhopal with strong interests in Electrical Engineering, Computer Science, Data Science, and Quantitative Finance. Currently working as a Gold Tier Research Consultant at WorldQuant BRAIN. Skilled in Python, machine learning, algorithm design, and statistical modeling. Experienced in interdisciplinary projects involving AI, finance, and intelligent systems.

EDUCATION

Indian Institute of Science Education and Research, Bhopal Aug 2023 – Present

Bachelor of Science in Engineering Sciences

Focus: Electrical Engineering, Computer Science, and Data Science

Relevant Coursework: Linear Algebra, Data Structures, Signals & Systems, Econometrics, Probability & Statistics, Basic Electronics, Microeconomics

Workshops: Quantitative Finance, Arduino, LaTeX, Mathematica, Bio-informatics

Clubs: EECS Club, Comix Club

EXPERIENCE

WorldQuant BRAIN — Research Consultant (Gold Tier) May 2025 – Present

- Promoted to Research Consultant after successful performance as Conditional Consultant.
- Designed and submitted 20+ alpha signals for global equity markets.
- Used Python and statistical modeling for back-testing and analysis.

PROJECTS

Diabetic Retinopathy Progression Prediction [Repository] [Dashboard]

- ML model using ensemble techniques to predict progression from retinal features.
- Achieved 85%+ accuracy. Tools: Python, Scikit-learn, OpenCV, Streamlit.

Cancer Cell Classification Dashboard [Repository] [Dashboard]

- Developed interactive dashboard for breast cancer classification using Streamlit.
- Compared models: SVM, KNN, Logistic Regression.

Self-Repairing Internet Protocol (SRIP)

- Built a fault-tolerant protocol integrating RL and anomaly detection.

- Simulated fault response and network self-healing behavior.

SKILLS

Languages: Python, Java, C, SQL, JavaScript

Libraries: Scikit-learn, Pandas, TensorFlow, NumPy, Streamlit, Seaborn

Finance: Quantitative Research, Alpha Generation, Time-Series Analysis

Tools: AutoCAD, MATLAB, SimuLink, Fusion360, Mathematica, LaTeX

CERTIFICATIONS

- WorldQuant BRAIN – Gold Tier Certification
- WorldQuant BRAIN – Quantitative Finance Starter
- Accenture – Software Engineering Job Simulation

ACHIEVEMENTS

International Quant Championship (IQC) 2025 – Stage 1

- **World Rank:** 113 **India Rank:** 29
- **Qualified for Stage 2** [Proof of Performance]

ACADEMIC ACTIVITIES

- Engineering Design Project: 3D printed balloon-powered car
- Programming Assignments: Python (Intro to CS), R (Econometrics), Stats Modeling
- Workshops: Fluid Dynamics, Arduino Hardware, Bio-informatics, Mathematica