# ANKIT KUMAR

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| PGP in Computer Science &Entrepreneurship | Ashoka University | AU | 2025 | 3.27 /4 CGPA |
| Remote Experience for Young Engineers & Scientists | Univ. of California, Berkeley | Summer Abroad | 2024 | A Grade |
| B.Sc. (Hons) in Computer Science | Ashoka University | AU | 2024 | 3.07 /4 CGPA |
| CLASS XII in Science, Mathematics & Computer Science | St. Karen's Sec. School | CBSE | 2019 | 409/500 |
| CLASS X | St. Karen's Sec. School | CBSE | 2017 | 9.8/10 CGPA |

**Skills Summary**  Adobe Portfolio, Advanced Excel, ANOVA, Competitive Landscape Analysis, Excel Dashboards, Financial Modeling, LaTeX, Market Research, Node.js, Power BI, PowerPoint, Python, QGIS, SQL, Tableau, Workflow Design.

## EXPERIENCE

### HP Tech Ventures | *Startup Analyst @Extern*                                              Nov 2025 - Present
- Improved startup data ETL **efficiency by 30%** via Python/NLP pipelines automation, analyzing **2K+ early-stage** venture profiles in sustainability sectors.
- Evaluated insights through comparative market analyses & scoring of **25 ESG-driven** startups, delivering actionable briefs for **>$50M investment** in R&D.
- Designed an **ocean-plastic recycling** strategy integrating The Ocean Cleanup venture with HP's supply chain, achieving a **5% rise** in recycled content ratio.

### Amazon | *Consulting Intern @Extern*                                                      Oct 2025 − Dec 2025
- Achieved a **90% reduction** in insight TAT by conducting Root Cause Analysis on **5k+ VoE** records, delivering workforce **KPIs** via dynamic Tableau dashboards.
- Refined **workforce** retention strategy via comprehensive risk segmentation, **projecting a 2.5x ROI** by ensuring strategic capital allocation across **AFCs**.
- Proposed **$500K in annual** operational savings by translating the **VoE analysis** into key attrition drivers, shaping a **pilot-ready intervention** strategy.

### Yinan Zhao | *Equity Research Analyst @Extern*                                            Oct 2025 − Dec 2025
- Analyzed **10-K/10-Q filings** and financials for two listed semiconductor firms (MCAP **$3B & $11B**), identifying inflection points to support strategic **buy/sell** calls.
- Incorporated **DCF** and **relative-valuation** models in Excel to assess intrinsic valuation & price targets, achieving results within ±**5%** of consensus estimates.
- Authored **3 equity research** memos combining valuation outputs & macroeconomic data, outlining investment theses targeting **12–15% risk-adjusted** returns.

### National Geographic Society | *Project Researcher*                                        Mar 2023 - Aug 2025
- Collaborated with the **Govt. of Himachal Pradesh** for documenting Shimla's water crisis & lead an interdisciplinary watershed assessment, funded by **TNC**.
- Achieved an **18.6 % decrease** in Non-Revenue Water **(NRW)** by conducting a gap analysis of city's water supply and sewerage network, benefiting **2,500** homes.
- Identified **11** potential **PSNs** through **GIS-based** hydrological mapping, recommending a **12% cost savings** in volumetric tariffs for **underserved** localities.

### PwC | *Consulting Intern*                                                                 Jan 2024- Mar 2024
- Secured **12 UIC-MoUs** to amplify the non-profit Teach for India's hiring strategy by **27%**; gaining strategic partnerships for its **Pan-India Fellowship**.
- Strategically curated a list of **750** rural govt. schools with a **33%** or higher need for socio-emotional learning **(SEL)** programs, facilitating **10,000+** educators.

## RESEARCH & PROJECTS

### Research | Nifty 200 Clustering & Risk Analysis Algorithm                                 Jan 2025 - May 2025
- Employed **K-Means Clustering** on 191 **Nifty 200** stocks across six financial ratios- ROE, P/E , D/E , β, 1Y Return, and Market Cap for portfolio optimization.
- Integrated the **Markowitz** mean-variance framework to maximize **Sharpe** ratio and conduct comprehensive **VaR** analysis, enhancing investor risk assessment.

### Case study: Algorithmic modelling of derivatives strategy for Reliance Industries          Jan 2025 - May 2025
- Publication unveiled insights on derivative strategies for **RIL** by analyzing **NSE market** data through Black-Scholes, PCP, and Monte Carlo simulations.
- Flagged breakeven risks & volatility hedging via **payoff diagrams**, producing a high-impact report that shaped investors' opinions on capital allocation.

### Post-Grad Capstone Thesis | *Ashoka University*                                           Jul 2024 - May 2025
- Developed an Integrated **Stellar Analysis** model for $1.8 \times 10^9$-star data from **Gaia DR2/DR3** catalogs for observational study under Raghavendra Singh.
- Built a **JavaScript** API to embed **Aladin Sky** and **PARSEC** isochrones in a browser-based interface for educational purposes, in coordination with **CDS**.

### University of California, Berkeley | *Research Mentorship- REYES*                          May 2024 - Dec 2024
- Validated a **climate risk** model for **Himalayan** states, proving with **99%** statistical confidence **(p < 0.01)** that a **1°C temp** rise accelerates glacier melt.
- Built a **predictive pipeline** that reduced glacial melt forecast error by **18%**, correlating **NDSI** from **LANDSAT 8** imagery with temperature data of 11 years.

## LEADERSHIP EXPERIENCE

### Resident Assistant Mentor − AURA | *Ashoka University*                                     Jul 2024 - May 2025
- Mentored a cohort of **80 RAs** equipping them with conflict resolution, cultural sensitivity, & community building skills while managing after-hours emergencies.
- Enhanced learning outcomes for **ABP** students by facilitating **ELT assignments** & creativity sessions, ensuring campus inclusivity and diversity.

### Resident Assistant− AURA | *Ashoka University*                                            Aug 2023 - May 2024
- Served as a resident advisor to **800+ undergraduates** on campus, administrating housing, and wellbeing programs of the **Student Affairs office**.
- Initiated **Gatekeeper Program** through **ACWB** to offer sensitivity trainings to RAs, improving counseling access for students during mental health crisis.

### Campus Director| *Hult Prize Program*                                                     Sep 2023 - May 2025
- Helped a team **"NoCap Meta"** secure **$1M** in pre-series **A** funding via organizing a university-level competition, closely monitored by Hult Prize Foundation.

### Scholar, Ambassador, & Collegiate Council Member | *NSHSS*                                 Mar 2019 - Nov 2024
- Recognized for **academic** excellence, advised High School students & provide peer-level support at member events of  Scholar's Day **Atlanta** & **Texas A&M**.

## AWARDS & ACHIEVEMENTS

### Harvard-Crossroads Emerging Leaders Program | Aspire (2024)
- Attended a fully funded leadership program for first-gen university students, curated by HBS Professor Tarun Khanna, **securing $10,000** in seed-impact funding.

### Outstanding Contribution to the Resident Assistantship | Ashoka University (2024)
- Awarded by the university for contributing in various verticals of **AURA** program, volunteering, and managing high-profile events of **Student Life Office**.

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| INTERESTS | Adventure Sports, Professional Cycling & Badminton, Culinary Stints, Regenerative Tourism, Symbolic Surrealism Art. |
| LANGUAGES | **Fluent:** English, Hindi, and 2 Regional Dialects   **Elementary:** English |
| WEBPAGE | Visit my webpage for a comprehensive portfolio (*research / writing / Art*) & additional information: **https://www.ankit-kumar.com/** |