

Karnav

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Education

Ashoka University

PG.D IN COMPUTER SCIENCE AND ECONOMICS
Fourth year with Advanced Major

Sonipat, India
2024 - Present

Ashoka University

BSC IN COMPUTER SCIENCE AND ECONOMICS
Graduated Magna cum laude, CGPA 3.85/4, with Dean's list in 5/6 semesters

Sonipat, India
2021 - 2024

Don Bosco School (DBPC) Kolkata

ISC - COMMERCE W/ COMPUTER SCIENCE & MATH
98.25%, with 100% in Computer Science

Kolkata, India
2019 - 2021

Skills

Python	Pandas, Selenium, Bokeh, Plotly, Django, Flask
Business	Excel, Powerpoint, Canva, Tableau, PowerBI
Scripting	Bash, Powershell, R, Stata, SPSS
Web Dev	Javascript, Typescript, Node.js, React.js, Redux, Svelte
Data	Postgres, MySQL, MongoDB, Firebase, Hadoop
Various	Docker, Kubernetes, C, Java

Experience

Amuse Labs

AI/ML INTERN

- Created real-time forecasting dashboards processing 20+ GB of daily business and application data.
- Wrote Python scripts to parse and aggregate application logs and convert them into meaningful business insights.

Bangalore, Karnataka
Dec 2023 - Present

Bloom Hotel Group

STRATEGY INTERN

- Developed a market entry and product strategy, identifying optimal new locations through geospatial analysis.
- Analyzed product pricing & positioning, and benchmarked product characteristics across the hospitality & real estate industries.
- Performed market segmentation & consumer preference analysis through primary & secondary research.

Delhi NCR
Jan 2024 - Jun 2024

FarMart

STRATEGY INTERN

- Reduced employee turnover by delivering compensation recommendations and quantifying employee experiences.
- Performed competitor analysis & industry benchmarking across agriculture & logistics to generate insights on employee turnover.
- Conducted on-ground interviews and developed a quantitative satisfaction assessment framework to analyze employee and partner well-being.

Delhi NCR
Sep 2023 - Dec 2023

Samagra | Transforming Governance

CONTRIBUTOR - C4GT

- Extended the ONDC-like Beckn protocol by developing an analysis framework to segment business models and integrate them into the protocol.
- Developed AI-services by leveraging NLP techniques & open-source LLMs to extend the Beckn protocol to 20+ markets and industries.

Delhi NCR
Jun 2023 - Sep 2023

Ernst & Young

PROJECT INTERN

- Prepared a survey report of Real Estate Investment Trust (REIT) Funds in India using competitor benchmarking & DCF analysis.
- Performed geospatial analysis to develop a geographic market entry & GTM strategy for commercial real estate in Tier-1 cities.

Kolkata
Dec 2022 - Jan 2023

Center for Economic Data & Analysis (CEDA)

INTERN - DATA SCIENCE & AI/ML

- Ideated and launched an analytics-focused dashboard using 2M+ datapoints from the PMGSY program.
- Implemented Named Entity Recognition and NLP techniques to achieve 95% accuracy matching on Indian data.

Sonipat
Dec 2021 - Aug 2022

Trivedi Centre for Political Data (TCPD)

INTERN - DATA SCIENCE & ENGINEERING

- Implemented a real-time data delivery pipeline handling 200k+ datapoints for the award-winning Lok Dhaba project.
- Reduced app crashes and fatal errors by 100% by implementing features for a Typescript+MERN visualization web-app of >20,000 lines of code.
- Only freshman intern ever selected by the TCPD internship program.

Sonipat
Dec 2021 - Mar 2022

Academic Activity

Koita Centre for Digital Health

RESEARCH INTERN

- Analyzed Electronic Health Records (EHR) from Max Health to investigate differential privacy risks.
- Conducted research using 3M+ records from the MIMIC dataset.

Sonipat
Jun 2024 - Present

Anustubh Agnihotri (PhD, UC Berkeley) RESEARCH ASSISTANT <ul style="list-style-type: none"> Generated insights and research by scraping, cleaning & analyzing 140M+ datapoints of public service delivery data across India since 2016. 	Sonipat Jan 2024 - Present
Debayan Gupta (PhD, Yale) TEACHING ASSISTANT <ul style="list-style-type: none"> Served as a teaching assistant under Prof. Debayan Gupta for the course Data Structures & Algorithms. Organized course content and logistics for 30+ lectures and held 15 teaching sessions for 20+ students each, receiving a feedback rating of 4.5/5. 	Sonipat Aug 2023 - Dec 2023
Mphasis Research Grant - under Debayan Gupta (PhD, Yale) RESEARCH ASSISTANT <ul style="list-style-type: none"> Authored a research paper on AI/ML techniques for data augmentation and analysis under Prof. Debayan Gupta and the Mphasis Research Grant. Analyzed 10 datasets of 10+ million datapoints each and engineered a novel technique for synthetic data generation for training generative AI. 	Sonipat Feb 2023 - Apr 2023
Debayan Gupta (PhD, Yale) RESEARCH ASSISTANT <ul style="list-style-type: none"> Investigated and prepared a report on the use of generative artificial intelligence for image manipulation and generation. Conducted and analyzed 2 behavioural surveys with Python and Flask, proving a 10% improvement of our AI model over existing alternatives. 	Sonipat Feb 2023 - Apr 2023
Susmita Saha (PhD, SNNCBS) RESEARCH ASSISTANT <ul style="list-style-type: none"> Assisted development on and implemented experiments to test a novel three-dimensional magnetic racetrack memory system in Mumax3. Implemented FFT and signal processing on a large model of magnetic interactions to analyze skyrmion stabilization. 	Sonipat Aug 2022 - Sep 2022
Subhashis Banerjee (PhD, IISc-B) TEACHING ASSISTANT <ul style="list-style-type: none"> Served as a teaching assistant under Prof. Subhashis Bannerjee for the course Foundations of Computer Programming. Organized course content and logistics for 30+ lectures and held 15 teaching sessions for 20+ students each, receiving a feedback rating of 4/5. 	Sonipat Aug 2022 - Dec 2022

Honors & Awards	
Apr 2024 Winner , IEEE-Ashoka Data Hackathon Mar 2024 Winner , Equilibrium-Ashoka Policy Hackathon Nov 2023 Finalist , BITS Pilani Case Competition	Inter-collegiate Among 100+ teams

Clubs & Societies	
Ashoka Consulting Club SENIOR ANALYST <ul style="list-style-type: none"> One of 23 analysts selected from 250+ applicants. Worked on live clients projects in the fields of real estate/hospitality and ESG. Helped ideate and organize two inter-collegiate case competitions drawing 100+ people. 	Sonipat 2023-
Ashoka Behavioural Insights Team STAFF WRITER <ul style="list-style-type: none"> Wrote an article for the behavioural science newsletter on the impact of gender on open-source technology. 	Sonipat 2024-
The Edict STAFF WRITER <ul style="list-style-type: none"> Wrote articles on football, F1, and the rise of sports analytics and covered live intra-college sports events. 	Sonipat 2023-

Projects	
India Cadastral PYTHON, SELENIUM <ul style="list-style-type: none"> For my undergraduate thesis, created a cadastral map of all land-holdings in India and implemented CNNs for climate modelling. 	Thesis Jun. 2024 - Present
Valuation of REITs PYTHON, APPSCRIPT, EXCEL <ul style="list-style-type: none"> Used cash flow and comparables analyses, I compared the valuations of India REITs. 	Delhi Jun. 2024 - Present
Better xG PYTHON, SKLEARN, PYTORCH <ul style="list-style-type: none"> Implemented ML forecasting methods to better predict outcomes in football, achieving SotA results. 	Delhi Jan. 2024 - Jun. 2024
Recourse TYPESCRIPT, NODE.JS, SVELTE, MONGODB <ul style="list-style-type: none"> Built a full-stack website with MERN stack using scraped data from Ashoka's LMS. 	Delhi Jun 2022 - Jun 2023