

# 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

## Experience

### Lightspeed Venture Partners

WINTER INTERN

- Collaborated closely with the Platforms & Investments team to source promising opportunities & talent from elite education institutions.
- Built and analyzed a dataset of founders & founding-team members from traditionally successful backgrounds based on startup trajectory.

Bangalore, Karnataka  
Nov 2024 -

### 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.
- Added customer-facing long-term analytics and trends to the product codebase.

Bangalore, Karnataka  
Dec 2023 - Aug 2024

### 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

### Centre for Digitalisation, AI & Society (CDAIS)

RESEARCH ASSISTANT UNDER SUBHASHIS BANERJEE (PHD, IISc-B) & ANUSTUBH AGNIHOTRI (PHD, UC BERKELEY)

- Investigated the impact of Aadhar integration on public service delivery through geospatial and econometric analysis.
- Created an all-India dataset of economic development and urban agglomeration over 50 years by analyzing historical satellite imagery.
- Developed a data scraping & cleaning pipeline for Indian governmental data across four portals, representing 200k+ documents of rich information.
- Investigated climate bureaucracy by scraping, cleaning & analyzing 140M+ datapoints of environmental impact data across India since 2016.

Sonipat  
Jan 2024 - Present

### Sandeep Juneja (PhD, Stanford)

TEACHING ASSISTANT

- Served as a teaching assistant under Prof. Sandeep Juneja for the course Introduction to Machine Learning.
- Organized course content and logistics for lectures and held teaching sessions for 20+ students each.

Sonipat  
Aug 2024 - Present

## 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 - Aug 2024

## Debayan Gupta (PhD, Yale)

TEACHING ASSISTANT

- 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

- 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

- 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, SNBNCBS)

RESEARCH ASSISTANT

- 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

- Served as a teaching assistant under Prof. Shubhashis 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

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Nov 2024 **Winner**, Shatranj Ashoka Venture Capital Pitch

Inter-collegiate

Apr 2024 **Winner**, IEEE-Ashoka Data Hackathon

Mar 2024 **Winner**, Equilibrium-Ashoka Policy Hackathon

Inter-collegiate

Nov 2023 **Finalist**, BITS Pilani Case Competition

Among 100+ teams

## Clubs & Societies

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### Ashoka Consulting Club

SENIOR ANALYST

- 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 Computer Science Society

EVENTS HEAD

- Oversaw the Events department of the Computer Society, organizing technical, research-focused and outreach-oriented events for the department.

Sonipat  
2024-

### The Edict

STAFF WRITER

- Wrote articles on football, F1, and the rise of sports analytics and covered live intra-college sports events.

Sonipat  
2023-

## Projects

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### India Cadastral

PYTHON, SELENIUM

- 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

- Using cash flow and comparables analyses, I compared the valuations of India REITs.

Delhi  
Jun. 2024 - Present

### Better xG

PYTHON, SKLEARN, PYTORCH

- Implemented ML forecasting methods to better predict outcomes in football, achieving SotA results.

Delhi  
Jan. 2024 - Jun. 2024

### Recourse

TYPESCRIPT, NODE.JS, SVELTE, MONGODB

- Built a full-stack website with MERN stack using scraped data from Ashoka's LMS.

Delhi  
Jun 2022 - Jun 2023