Veda D

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EDUCATION AND SKILLS

Ashoka University **India**
Post Graduate Diploma, Advanced Studies and Research (Minor in Economics) *Aug 2023 - Present*
- **GPA: 3.67/4.00**

Ashoka University **India**
B.Sc Honour (Mathematics and Computer Science) *Aug2019 - Jun 2022*
- **GPA: 3.72/4.00**
- **Skills**: Python, R, C, Pandas, Kera, OpenCV, Tensorflow, Microsoft Excel, Canva, Data Scikit, Ggplot, Plotly, TidyR

INTERNSHIP EXPERIENCE

CS Department, Ashoka University **India**
Undergraduate Teaching Assistant - Introduction to Computer Programming *Jan 2023 - Present*
- Teaching Assistant to Professor Subashis Banerjee and Professor Maya Ramanath from IIT-Delhi

Nichesolv **India**
Data Science Intern *Jun - August 2022*
- **Labelled** over **7000+ snippets** for the ACE App (a tennis-based coaching aid app using Computer Vision) being developed in **7 days** that would enable improve accuracy for tennis players' shot and stroke correction
- **Tested** over **10+ experiments** and performed a **thorough error analysis** on the LRCNN model used to predict strokes and shots made by tennis players that allowed a deeper understanding of the working of the model
- **Studied** the TrackNet module in **2 days** to evaluate and test methodologies on finding the contact between ball and racket using TrackNet

CS Department, Ashoka University **India**
Undergraduate Teaching Assistant - Introduction to Computer Programming *Jan - May 2022*
- **Assisted** and **facilitated** learning experiences through office hours, construction and grading of all forms of assessments in Introduction to Computer Programming for **over 170 students**, evaluated as **4.41/5.00**
- **Awarded** Undergraduate Teaching Excellence Award by the CS Department out of **30+ Teaching Assistants** for helpful and dedicated instruction

Career Labs **Bangalore, India**
Product Management Intern *May-Jul 2021*
- **Spearheaded** the prototype design for an internal Course Management Portal by **creating 25 screens** using Figma, achieving it in **less than 10 days**
- **Analysed** and **extracted** data from syllabi of over **15** universities to **create a semi-automated system** for data entry of courses on the backend.

RESEARCH EXPERIENCE

Social Network Research Group, Ashoka University x Mphasis Labs **India**
Undergraduate Research Assistant *May 2022 - Present*
- **Investigated** the bias mitigated from the production and consumption of Indian media through the study of tweets and articles under **Professor Debayan Gupta**
- **Synthesised** a pipeline to produce over **100,000+ articles from 5 Media Houses in 30 hours** which will be contributed to produce a formal database. **Designed visualisations** to understand hashtag usage of 12 Media Houses

Center for Health Analytics and Research Trends, Ashoka University x Mphasis Labs **India**
Undergraduate Research Assistant *May 2022 - Present*
- **Investigating** and **helping** construct automation and construction of homogenous electronic health records. **Assisting** mining of data regarding drugs from various websites
- **Evaluating** and **leading** the data pre-processing and analysing.

POSITIONS HELD

Office of Learning Support
Undergraduate Peer Mentor *Aug 2021 - Dec 2021*
- **Aided** and **mentored 2 first-year undergraduate students**, helping them navigate various difficulties of the online realm of education
- **Held** meetings **twice a month** and was available via text and call for any difficulties

CS Department Ashoka University, Academic Advisory Board **India**
Computer Science Representative *Apr 2021 - Apr 2022*

- **Facilitated** logistical communication between **300 students** and the Computer Science Department. **Oversaw** and **optimised** timetable clashes for the CS department while mentoring over **35 students** by designing their course trajectories and **guiding** their CS experiences
- **1** of the **4 recipients** of the Undergraduate Service Excellence Award out of **300+ students** for contributing to the growth of the CS Department at Ashoka. **Raised awareness** for the interdisciplinary major needs by adding content to Department Handbook

Women in Computing Society, Ashoka University **India**

Head of Blog Team *Jun 2021 - May 2022*

- **Led** a team of **12 individuals**, teaching and trying to bring attention to various issues in STEM while **editing and authoring articles.**
- **Designed** a **prototype structure** for the newsletter, Bit a Bit

Events and Podcast Member *Sep 2020 - Jan 2022*

- **Created** and **designed** posters for events such as fireside chats and workshops
- **Recorded** and **edited** podcasts with a variety of hosts for the WiCScast Season 1 while helping ideate content
- **Conducted 1 Workshop Weekend** on the **introduction to R** and helped **ideate** over **3 Workshop weekends**, a tutorial session held for various topics assuming no prerequisite knowledge

Farmfresh: Gardening and Cooking Club, Ashoka University **India**

President *Jun 2020 - May 2022*

- **Led** and **sustained** a gardening club through the pandemic by connecting with events such as DIY Seed Bombs, Cook-Alongs that encouraged sustainable eating through local produce
- **Organised** events that generated footfall of over 100-200 students by serving street food from around the world
- **Restructured** the club and re-wrote the Charter to cater for situations beyond ground level work

PROJECTS

Shamir Secret Sharing and Short Shares

CS2363: Computer Security and Privacy *Mar 2022 - May 2022*

- **Implemented** Secret Sharing Made Short by Hugo Krawcyzk with a combined mathematical understanding of the proof behind Shamir Secret Sharing with a front-end system for interaction using Streamlit software

Predicting Heart Failure using Supervised Machine Learning

CS1390: Introduction to Machine Learning *Oct 2021 - Dec 2021*

- **Created** various models that identify the **two factors** that can be used as indicators for predicting Heart Failure in Stage 3 and Stage 4 patients with an **accuracy of 79%** while evaluating and extracting the pitfalls of various supervised machine learning models to reproduce similar results to David Chicco's paper on the same dataset

Face recognition via Principal Component Analysis

CS1390: Introduction to Machine Learning *Oct 2021 - Oct 2021*

- Used **Principal Component Analysis** and **Support Vector Machine** modelling on the **Olivetti face set** and a dataset of all the students in Introduction to Machine Learning
- **Delivered** project in **12.5% time**. Model has an accuracy of **93%**

(Dis)Passion of Deduction

CS2109/ENG2350: Introduction to Digital Humanities *Feb 2021 - Mar 2021*

- **Analysed** over **9 books** using Natural Language Processing's **Named Entity Recognition** to understand and question the existence of the stereotype of detectives in 19th-century crime fiction being cold and rational individuals through **sentiment analysis**

AWARDS

- **Magna Cum Laude Graduate**
- **Academic Award - Service Excellence Award 2022**
- **Academic Award - Undergraduate Teaching Assistant Spring 2022**
- **Dean's List Monsoon 2019**
- **Dean's List Spring 2021**

RELEVANT COURSES & SPOKEN LANGUAGES

Major Courses: Calculus I, Linear Algebra, Introduction to Computer Programming, Discrete Mathematics, Introduction to Proofs, Algebra I, Probability Theory, Computer Organisation and Systems, Algorithm Design and Analysis, Introduction to Digital Humanities, Multivariable Calculus, Statistical Inference, Introduction to Machine Learning, Computer Networks, Bioinformatics and Biostatistics, Real Analysis, Advanced Topics in Probability, Computer Security and Privacy, Theory of Computation, Introduction to Economics, Microeconomic Theory I, Macroeconomic Theory I, Statistics for Economics, Computer Vision, Symbolic Logic, Econometrics, Mathematics for Economics, Global Cold War, Health Data Science Informatics

Language: English, Hindi, Telugu, Kannada, Japanese