

## **SARTHAK PUNJ**

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### **OBJECTIVE**

Aspiring to pursue a Masters in Computer Science with specialization in Artificial Intelligence (AI) to get predominant exposure to research in AI. Upon graduating, aiming to work on interdisciplinary projects leveraging AI and eventually building a venture to create innovative products for sustainable societal growth.

### **ACADEMIC QUALIFICATIONS**

**Bachelor in Computer Science with specialization in Data Science**

Vellore Institute of Technology, Vellore, India

July 2021- May 2025

CGPA: **8.46/10**

### **ACADEMIC PROJECTS/PUBLICATIONS**

**Monitoring Spiritual Well-being with Deep Learning-Based Wearables**

Present

- Manuscript in progress.

**AI in Education**

Jan 2024 – Present

**Team size:** 2

**Role:** Co-author

- Building a model to make the answer sheet marking (checking) equal for all using AI.
- Ensured the model was bias-free and saved time when evaluating the same answers for multiple students.
- Writing a technical paper. The manuscript is being developed and reviewed.

**Metaverse Miracles: Enhancing Healthcare Experiences Through Virtual Reality**

April 2023- July 2024

**Team size:** 2

**Role:** Team leader/ First author

- Describe techniques that can benefit the medical field using metaverse.
- Published in international journal IJLC Inderscience Publisher.

**Food Delivery Website, Google Developer Student Club Hackathon**

March 2023

**Team size:** 2

**Role:** Team leader

- Developed a website for food delivery within campus hostels, facilitating local vendors and providing students with convenient access to meals.
- Designed the basic to intermediate framework, collaborating with a peer who focused on UI/UX design.
- Achieved a top 10 placement among competing teams.

**Team Lead at the Solidus AI Hackathon, HACKEREARTH**

**Team size:** 2

Aug 2024

- Built a CV Analyzer Tool using Flask, HTML, and CSS to help users evaluate resumes effectively.
- As a backend developer, implemented Flask to analyze resume content and highlight relevant details.
- Used Flask for the Web Framework, HTTP Requests for requests, and werkzeug (for secure filenames).
- Performed data analysis using pandas, scikit-learn, text extraction using pdfplumber, python-docx, and text handling using io, re, and collections. Used HTML, CSS, and JavaScript for web design.
- Created the logic for NLP. Aiming to host the project in the Solidus AI marketplace.

## INDEPENDENT PROJECTS

### AI applications

July 2024 - Present

- Working on enhancing coding by building solo projects on AI/ML, including sentiment analysis, spam detection, and neural networks.

### Watch Synchronization App

Nov 2023 - Dec 2024

- Built an app synchronizing phone time with the National time of India present at NPL India using Python and Android Studio.

### Virtual Assistant using Python

Jan - Feb 2020

- Built a virtual assistant using Python libraries and integrated AI into the project.

## PROFESSIONAL EXPERIENCE

### Biup Technologies India, Internship in Artificial Intelligence

May-July 2024

- Designed and implemented AI-driven solutions to enhance customer experience, focusing on problem-solving approaches in artificial intelligence.
- Developed and integrated speech-to-text and text-to-speech technologies to facilitate seamless and intuitive communication between customers and systems.
- Engaged in designing and training large language models to improve the accuracy and relevance of customer interactions, utilizing cutting-edge techniques and frameworks.
- Conducted extensive training sessions to optimize AI models, ensuring high performance and adaptability to diverse customer needs.

### CSIR-National Physical Laboratory, Internship Trainee

Aug – Dec 2023

- Collaborated with a dedicated team to improve the accuracy and efficiency of metrology processes through innovative software development.
- Developed visually appealing and user-friendly interfaces for applications.
- Significantly improved the precision and reliability of time and frequency measurements.
- Tools and Technologies Used: Python, R, Matlab, Git, JIRA, Slack, HTML, CSS, JavaScript, Angular, Postgres database, and API(Postman).

### Piphee Learning LLP, Content Development Intern

Aug 2022- Feb 2023

- Gained valuable experience and recognition for content creation for the subject of physics.

## TECHNICAL SKILLS AND CERTIFICATIONS

- Next-Gen AI solutions with Azure: Hands-on approach, Microsoft, Aug 2024
- Hacker rank [certified R\(basic\)](#), July 2024
- Public Speaking, IIT Roorkee, NPTEL, Oct 2023
- Google Cloud Digital Leader, Oct 2023
- Digital design and UX virtual experience, Forage, April 2023
- Hacker rank [certified problem solver](#), Dec 2022
- Hacker rank [certified java \(basic\)](#), Dec 2022
- Aws certified cloud practitioner, Oct 2023
- Hacker rank 3 star coder in Java (badge), March 2022

## ACHIEVEMENTS

- Participated in the Eltai India writing competition, Sept 2020.
- Achieved VITEEE (Vellore Institute of Technology Engineering Entrance Examination) 2000 All India Rank, 2021.

## LEADERSHIP

### Team Lead at the Maha Behes competition, Maxfort School Dwarka

2017

- Led debate discussions as the first speaker, outlining key arguments and guiding the team's strategy. Also, contributed to writing and refining debate points.

- Boosted team confidence and provided constructive feedback, clearing the quarter-final rounds.

## **COMMUNITY INVOLVEMENT**

### **Volunteer, NGO**

Jul - Nov 2023

- Participated in food donation camps.

### **Volunteer, AYUDA**

Jun 2021 - Jun 2022

- Facilitated underserved individuals with basic amenities and promoted education for children.