

Shatakshi Saxena

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EDUCATION

- Thapar Institute of Engineering and Technology, India** July 2025
B.Tech Computer Science and Engineering, CGPA: 8.35
- City Montessori School, Lucknow, Uttar Pradesh, India** July 2021
12th Standard (Higher Secondary School), Percentage: 99.5%
- City Montessori School, Lucknow, Uttar Pradesh, India** June 2019
10th Standard (High School), Percentage: 96.6%

TECHNICAL SKILLS

Programming Languages : C/C++, Java, Python, JavaScript, R, Go, MATLAB
Library/Frameworks : NumPy, Pandas, PyTorch, Tensorflow, Scikit-learn, BeautifulSoup, Selenium, Bootstrap, jQuery
Tools/Platforms : Jupyter, Google Colab, Anaconda, Jira, Excel, Tableau, PowerBi, VS Code, Android Studio, AutoCad, Git
Databases : SQL (MySQL, Oracle), NoSQL (MongoDB), PostgreSQL
Others : Artificial Intelligence, Machine Learning, Deep Learning, Web Dev (HTML, CSS, JS+MERN), UI/UX, DSA, OS (Windows, Linux), Computer Networks, Network Programming, Web Scraping using Python, System Design (Basics), Software Development Lifecycle, Agile Methodology, Cloud Computing (AWS), Data Visualization and Analytics, Containerization (Docker), Kubernetes, DevOps

EXPERIENCE

- IIT-BHU | Research Intern** May 2023- Present
- Created an AI-based platform for visual impaired, a comprehensive digital information system serving parents and stakeholders, with a focus on job opportunities, advocacy, and understanding visual impairment.
 - The research encompasses solutions like education, communication, entertainment, mobility, and daily living; leveraging Generative AI technologies, including GPT-4, LSTM, CNNs, and GANs like Wasserstein GAN.
 - Auditory sensitivity was addressed using algorithms such as AudVisNet, and visual perception is enhanced through the integration of the Retinex model, ultimately aiming to improve accessibility and autonomy for individuals with visual impairments.

- CognifAI | Software Engineer Intern** May 2023 – August 2023
- Developed and implemented responsive and user-friendly websites.
 - Built a cutting-edge mental health chatbot and integrated it into the website ensuring seamless communication. Built an AI-powered virtual assistant designed to provide support and resources for users struggling with mental health concerns. It utilizes Natural Language Processing (NLP) techniques, and employs machine learning algorithms such as LSTM (Long Short-Term Memory) and GPT-3.
 - Conducted thorough testing, debugging, and optimization of code to enhance website performance.

- Livpal Enterprises | Product Manager Trainee** March 2023- June 2023
- Conducted market research, competitive analysis, and gathering customer feedback to identify opportunities.
 - Participated in cross-functional teams, collaborating with different departments such as engineering, design, and marketing, to ensure successful product launches and ongoing product support.

- IITTH | Attendee and Researcher at Summer School of AI** July 2022 - August 2022
- Engaged in hands-on projects, applying machine learning techniques, and implementing neural networks using popular frameworks such as TensorFlow and PyTorch.
 - Developed models using a recurrent neural network (RNN) with Long Short-Term Memory (LSTM) cells and conducted research on GANs.

- Mindler | Student Intern** October 2020 - November 2020
- Learnt about entrepreneurship and as a task founded and operated a student-led entrepreneurial venture, leveraging software engineering skills to develop and launch innovative solutions.

PROJECTS

Fraud Buster: (Deep Learning, Kafka, Flask, Python)

Built a fraud detection system with ANN. Deployed highly scalable, open source data transaction streamer of Kafka. The model, converts the json data into a preprocessed format that the model further predicts upon. The model showed an accuracy of 99.6 % and had been tuned to reduce amount of false positives.

HACS: (HTML, CSS, JavaScript, AI, ML, Python, PHP)

Taking the manual system to the next level Hostel Attendance Coordination System using face recognition in Attendance, efficient room cleaning system, chatbot along with other salient features like leave application, room booking, complaint redressal etc.

Autonomous Electric Jeep Project: (AI, ML, DL)

Under the Team Oorja, a car model was developed on Carla simulator with a multitude of cutting-edge features. These include the ability to be driven either manually or through gesture controls, an obstacle avoidance system using Proximal Policy Optimization and Q-Learning etc.

ShePower: (*HTML, CSS, JavaScript, Python, MERN, Flask, AI, ML, DL, Blockchain*)

Transformed the involvement of women in STEM domains through the development of an all-encompassing platform, leveraging technologies such as MERN for web development, AI/ML/DL models for automating intricate processes, and fortified security with blockchain. The platform encompasses a range of offerings including a Career Guidance Hub, Skill Development Hub, Mentorship, Interview Booking, Socials, Chatbot, Resume Analyzer, and Job/Internship alerts.

VERITAS Digital Design Logbook: (*MERN Stack*)

The entire project has been executed online following the 'Engineering Design Process'. I am working to develop the digital logbook, specifically for the stakeholders in B.Tech Capstone Projects, Project Semester, Project-based courses, and student teams for competitions.

Other Projects:

Web Dev: CTF website, Personal Finance Tracker with chatbot, Password Generator, Running Game, Tic-Tac-To, etc.

Python: Virtual Assistants, YouTube Video Downloader, Number Guessing Game, Handwritten Numbers Recognition etc.

MATLAB: Face Detection, Face Recognition, Hand Gesture detection etc.

Web Scraping: Amazon/Flipkart Data Web Scraping using Python with BeautifulSoup library etc.

Clones: Spotify, Hotstar.

ACHIEVEMENTS

- I have been awarded the **AWS AI & ML Scholarship 2023**. AWS has sponsored enrollment in the **AI Programming with Python Nanodegree** by Udacity.
- **National Finalist** at 'Pitch to SBI Hackathon'-2023.
- Selected in **Next Generation Women Leaders'23** by McKinsey & Company
- I achieved victory and earned the sponsored prize in the **NorCalHacks Hackathon 2023** for being in top 100 among 1500+ teams.
- Selected as **GSSOC'23 contributor** and contributed to many projects.
- I was selected as a Mentee at **Winter of Blockchain** at **HyperEdge** where I developed a deep understanding of blockchain technology, decentralized applications (dApps), and smart contracts.
- Appointed as **Joint Secretary** at **IETE-SF** where I executed strategic initiatives, such as mentoring programs and industry collaborations and lead various technical projects leading to society's growth and success. Selected as **Core Member** in **ISTE** where I played a key role in managing the society's presence including website maintenance, social media management, and content creation. Got an opportunity to **lead the tech team** at student chapters and organizations like iGEM, Team Orja and Mechatronics and Robotics Society.
- Successfully completed **Virtual Experience Intern Certification**- Accenture Data Analytics and Visualization, JPMC Software Engineering, Goldman Sachs Fin Tech Virtual Engineering Intern and various MOOC courses from Coursera- AI for everyone, Machine Learning, Deep Learning, Version Control, Meta Front-End Developer Professional Certificate, Programming Fundamentals.
- **National Finalist** in Get Set Innovate conducted during Avenues 2021, **The Annual Business of IIT-Bombay**.