

# Shashwat Karna

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Hands-on experience in full-stack development, machine learning, and backend systems. Developed AI tools, chatbots, and web apps through self-driven projects. Quick learner focused on delivering practical, scalable solutions.

## EDUCATION

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<b>Amity University, Uttar Pradesh</b> <i>Bachelor of Technology in Information Technology</i>   (CGPA: 7.36)	Noida, Uttar Pradesh 2022 – 2026
<b>GreenFields Public School</b> <i>Senior Secondary (12<sup>th</sup>)</i>   CBSE	Dilshad Garden, Delhi 2021
<b>GreenFields Public School</b> <i>Secondary (10<sup>th</sup>)</i>   CBSE	Dilshad Garden, Delhi 2019

## TECHNICAL SKILLS

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**Languages:** C/C++, Python, Java, JavaScript, HTML/CSS  
**Frameworks:** React, Next.js, Node.js, Flask, FastAPI, L a n g u a g e s  
**Libraries:** NumPy, pandas, Matplotlib, scikit-learn, PyTorch, TensorFlow, Tailwind CSS  
**Developer Tools:** Git, Docker, Travis CI, Google Cloud Platform, VS Code  
**Database:** MongoDB, MySQL

## PROJECTS

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- Portfolio Website** | *Next JS, Type Script, Java Script, Python, Flask* [Live ↗](#)
- Designed and deployed a **dynamic personal portfolio** showcasing projects, achievements, and skills.
  - Implemented **full-stack features** with **Next.js (frontend)** and **Flask (backend)** for contact forms and analytics.
- ObjecTrack: Object Detection** | *Python, OpenCV, YOLO, TensorFlow, Keras, NumPy* [GitHub ↗](#)
- Trained a YOLOv5-based model on **5,000+ custom images**, achieving **92% accuracy** in object classification.
  - Deployed real-time detection system focusing on reducing **latency**, enabling smooth video-based recognition.
  - Optimized performance using **deep learning & OpenCV**, making it suitable for **live surveillance use-cases**.
- TalentTrack** | *Python, Flask, Kivy, scikit-learn, pandas, logistic regression* [GitHub ↗](#)
- Developed a **job recommendation** system that suggests suitable **career paths** based on user profile data and preferences.
  - Implemented a **Decision Tree**-based classification approach using a dataset of **20,000+** career profiles to generate job-role predictions.
  - Built an interactive application using Flask and Kivy to provide insights on domain placement and salary trends for fresh graduates.
- QUESTiFY** | *React, Python, Flask, Sense2Vec, WordNet, JS, REST APIs* [GitHub ↗](#)
- It is an automated Multiple-choice question (MCQ) tool that generates high quality MCQ along with summarization from a given text paragraph.
  - Reduced manual question creation effort by automating MCQ generation and content summarization.
  - Designed web app with **REST APIs**, valuable resource for educators and students.
- MindCare AI** | *React, Python, Flask, scikit-learn, TensorFlow, Hugging Face Transformer* [GitHub ↗](#)
- Developed an AI-powered mental health chatbot trained on an **8,000+ curated** conversation dataset using **fine-tuned** transformer models for intent and emotion understanding.
  - Currently developing and integrating platform features including **self-care tools, journaling, mood detection and analysis, and appointment booking**.
  - Designing the system with **scalability** in mind to support future feature expansion and real-world deployment.

## EXPERIENCE

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### Web Development Intern

May'2025-July'2025

Jabsz Gaming Studio LLP.

Remote

- Developed cross-platform web game (**MindFlip**) using React Expo, enabling seamless iOS/Android compatibility.
- Optimized frontend components with modern web technologies of a web-based game (MindFlip) development using React (Expo).
- Collaborated with the design and backend teams to enhance user interface and overall responsiveness of the web application.

### AI & Chatbot Development Intern

May'2025-July'2025

AIDC, Amity University

in-Person

- Developed smart chatbot system using NLP techniques, enhancing user interaction and support for Amity Campus community.
- Implemented semantic understanding using Hugging Face Transformers to improve query interpretation and automated response generation.
- Integrated AI APIs and features to enable real-time, intelligent responses, improving overall system efficiency.

## Extracurricular and Volunteering

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### Swachh Health Vikas Samiti

July 2023- October 2023

Volunteer (Community Development & Digital Education)

Shahdara, Delhi

- Mentored 20+ underprivileged children in digital literacy, teaching coding basics and internet safety.
- Developed workshops to bridge digital divide, impacting 50+ community members.

### College Events

- *Participated in different college activities (code canvas, club activities)*
- *Attended multiple seminars and conferences (Incite)*

### TryHackme- Active CTF Player and cybersecurity learner

- *Completed over 120+ rooms, focusing on topics like penetration testing, web exploitation, and Linux privilege escalation.*
- *Participated in Capture the Flag (CTF) challenges to practice real-world hacking skills in safe environments.*
- *Maintained a steady rank and progress on the leaderboard.*

## Certifications

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- Python Essentials 1 & 2, Cisco [↗](#)
- CCNA: Introduction to Networks, Cisco [↗](#)
- Introduction to Cybersecurity, Cisco [↗](#)
- Cybersecurity: Fundamentals, IBM [↗](#)
- Data Analysis Using Python [↗](#)
- Fundamentals of Deep Learning, Nvidia [↗](#)
- AWS Academy Graduate - Cloud Foundations [↗](#)