

Location

Noida, India

Phone

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Email

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Technical Skills

Languages: C, C++, C#, Python, SQL, PHP, Kotlin

Frameworks/Libraries: Pandas, Matplotlib, NumPy, SciPy, Scikit-learn, TensorFlow

Databases: Firebase, MySQL

Cloud & Tools: AWS, Android Studio, MATLAB, MPLAB, Microsoft Office, Unity

Web Technologies: HTML, CSS

Non-Technical Skills

Creative Writing | Public Speaking

Languages

English (Fluent)

Hindi (Fluent)

Welsh (Intermediate)

French (Basic)

Spanish (Basic)

Publications

Stranger Sagas Northern Ireland and Wales:

Title: "The Zombies"

Published a 100-word story in a book during high school.

Showcased creative writing skills and contributed to a collective literary project.

ExtraCurriculars

Thapar Institute of Engineering and Technology:

Group Representative for second Semester.

Cathays High School:

Head Boy for two consecutive years

Volunteering

Hindu Cultural Association | Cardiff, United Kingdom:

Photographer | Performer

Awards

Cathays High School | Cardiff, United Kingdom:

Student of The Year | 2020

Vishwa Bharati Public School, Noida, India:

Academic Excellence | 2015

Ishan Grover

Cloud Engineer

Tech-savvy Cloud Engineer with a passion for backend development, AWS services, and cloud-based solutions. Strong problem-solving skills, database expertise, and a background in game development and scalable system design.

Experience

Hyper-Parameter Tuning of a Deep Learning Model Using PSO Optimization | Present

Research Assistant | Thapar Institute of Engineering and Technology | Patiala, India

- Created detailed Visio and Word diagrams of convolutional and other deep learning models to visually represent the research process, aiding in both project documentation and research paper writing.
- Assisted in optimizing hyper-parameters of a deep learning model using Particle Swarm Optimization (PSO).
- Managed the collection and pre-processing of Glaucoma image datasets from various hospital online repositories, ensuring data quality.
- Fine-tuned key hyper-parameters, such as pool size and fitness parameters, to enhance model accuracy and performance.
- Collaborated with faculty members to analyse results and improve optimization strategies.

Power Quality Improvement of DC-DC Converter | 06/24-08/24

Intern | Thapar Institute of Engineering and Technology | Patiala, India

- Participated in the ELC Internship program, focusing on developing a DC-DC converter for off-grid solar panel EV charging systems.
- Designed and implemented energy conversion systems with a closed-loop feedback circuit to improve power quality, ensuring THD < 5%.
- Collaborated with a team of students and faculty to integrate renewable energy sources with EV technology.
- Conducted research on current technologies and best practices for off-grid solar energy systems

Education

Thapar Institute of Engineering and Technology | Patiala, India | 2026{Expected}

B.E. Electrical and Computer | CGPA: 8.06(Current)

ASPAM Scottish School | Noida, India | 2022

CBSE, Senior School Certificate Examination | 86.6%

Cathays High School | Cardiff, United Kingdom | 2020

GCSE, Secondary School Examination | 90%

Vishwa Bharati Public School | Noida, India | 2016

Schooling from 1st to 6th Standard.

Projects

AI-Powered Battery Management System for Electric Vehicles | Present

- Implementing Explainable AI (XAI) for SoC, SoH, and RUL estimation in EV batteries.
- Developing AI-driven analytics to enhance battery performance using sensor data.

Movie Booking App | Full-Stack Developer | June 2024

- Built a full-stack movie booking app with Firebase for real-time database & authentication.
- Features: User login (biometric), interactive seat selection, dynamic reservations.
- Future scope: Payment gateway & ML-based recommendation system.

Saffron Skies | Backend Developer | April 2024

- Developed backend for ticket booking, modifications, cancellations, and check-ins.
- Integrated seat selection, baggage details, and meal preferences.

Augmented Reality Airplane Game | Developer | November 2023

- Created an AR game where virtual planes interact with real-world objects.
- Enabled user actions like boarding, baggage handling, fuelling, and take-off.

Relevant Coursework

Cloud Computing, Data Structures, Computer Networks, Database Management Systems, Operating Systems, Software Engineering, Machine Learning, Artificial Intelligence, Design and Analysis of Algorithms, GPU Computing (Ongoing), Blockchain Technology (Ongoing)