Deep H. Das

B.Tech - Artificial Intelligence

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E–Mail | LinkedIn GitHub
Portfolio | Codeforces | LeetCode

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentile	Year
B.Tech in AI	NIT Surat	9.54	2023–Present
Higher Secondary	GSHSEB	99.70	2022–2023
Secondary	GSHSEB	98.90	2020–2021

EXPERIENCE

- **Great Notes** *Oct 2024 - Jan 2025*
  Full Stack Developer Remote
  - Designed, developed, and deployed a dynamic website from the ground up, ensuring robust functionality and scalability.
  - Collaborated cross-functionally with designers and developers, streamlining the development lifecycle for optimal efficiency.
  - Successfully launched a fully operational, commercially viable platform, demonstrating strong full-stack expertise.

- **PhysicsWallah** *Apr 2024 - Jun 2024*
  Subject Matter Expert (Physics) Remote
  - Provided in-depth subject matter expertise, curating high-quality physics content for enhanced student learning.
  - Developed comprehensive solutions and academic resources, ensuring accuracy and conceptual clarity.

PROJECTS

- **Capify - Personal Finance Assistant** *Jul 2024 - Present*
  Web Application Website
  - Developed a comprehensive **finance management platform** with tools for **budget tracking, expense management, and financial insights**.
  - Implemented **Split-Smart**, a feature simplifying **bill splitting** and tracking shared expenses seamlessly.
  - Designed various **recommendation-based calculators** to assist users in financial planning.
  - Integrated a **blogs & resources section**, providing users with expert financial guidance, including articles, podcasts, and talks from industry leaders.
  - Built an **AI-driven stock market price prediction model** to help users make informed investment decisions.
  - Developed a **personalized financial recommendation engine**, providing **five key suggestions** based on user data.
  - Implemented an **invoice summarizer & data analyzer**, automatically extracting insights from uploaded invoices.

- **Gesture Controlled Suite** *Mar 2024 - Jun 2024*
  Computer Vision-Based Application GitHub
  - Developed an **AI-powered gesture recognition system** enabling intuitive control over digital interfaces.
  - Enhanced user experience by providing a **hands-free, gesture-driven interface** for various applications.
  - Implemented **gesture-based functionalities**, including **mouse and keyboard control, PPT navigation, air draw, 3D object manipulation, Pomodoro timer, screenshots, and screen zoom**.
  - Utilized **OpenCV & MediaPipe** for efficient real-time hand tracking and gesture classification.

- **WanderBot** *Feb. 2025 - Present*
  GenAI-Powered Travel Assistant Website | GitHub
  - Built an **AI-powered travel assistant** using **Gemini Pro** to generate **personalized travel itineraries**.
  - Integrated **Eventbrite API** to fetch suggested travel destinations based on user preferences.
  - Used **AviationStack API** to provide real-time **flight options** from the user's origin to their destination.
  - Implemented a **train journey search** feature, particularly useful for travel within India.
  - Developed a **hotel recommendation system**, suggesting accommodations near the user's destination.

- ◦ Added a **fun travel facts generator** to enhance user engagement and keep the wanderlust alive.
- ◦ Designed a **beautiful and intuitive UI** for seamless user experience.

- **Agro We - Smart Agricultural Platform** *May. 2024 - Present*
  Web-Based Decision Support System [Website](#) | [GitHub](#)
  - ◦ Designed a **web app for precision agriculture**, providing farmers with **real-time insights** for better decision-making.
  - ◦ Developed a **user-friendly dashboard** with dynamic visualizations and a **weather forecasting system** for improved farm planning.
  - ◦ Implemented a **recommendation engine** tailored to **soil type, crop selection, rainfall prediction, and farming season**.
  - ◦ Empowered farmers by **simplifying complex agricultural data** into actionable insights to boost productivity and sustainability.

- **AI-Driven Sustainability Platform** *Aug. 2024 - Present*
  MERN Stack + AI for Environmental Impact [Website](#) | [GitHub](#)
  - ◦ Developed an **AI-powered platform** to **reduce paper cup waste** and promote sustainability.
  - ◦ Created a **personalized tracking system** to monitor **waste reduction & chemical exposure savings**.
  - ◦ Designed a **dynamic impact dashboard** with **real-time analytics** and leaderboards.
  - ◦ Integrated **GPT-2 & NLP for AI-powered eco recommendations** to guide users toward sustainable choices.
  - ◦ Built an **interactive insights hub** to provide users with the latest sustainability blogs, news, and eco-friendly practices.

- **Smart Healthcare Platform** *Sep. 2024 - Present*
  AI-Powered Health Monitoring & Doctor Booking [Website](#) | [GitHub](#)
  - ◦ Created a **real-time health recommendation dashboard**, updating **every 5 minutes** based on **Fitbit/smartwatch data**.
  - ◦ Developed a **healthcare platform** offering **doctor bookings, health analytics, and community support**.
  - ◦ Implemented **location-based doctor booking** for home visits.
  - ◦ Built **health metric calculators** for real-time health tracking.
  - ◦ Designed an **awareness page** providing monthly insights into **diseases, symptoms, risks, prevention, and treatment**.
  - ◦ Integrated a **Medicine Recommendation System** offering **drug alternatives and proper dosages**.
  - ◦ Built a **Medicine Usage Helper**, providing **detailed descriptions of medicine usage, side effects, and interactions**.

- **Task Manager Application** *Feb. 2025 - Present*
  React Native-Based Task Management [GitHub](#)
  - ◦ Developed a **React Native task manager** enabling users to **create, update, delete, and organize tasks**.
  - ◦ Implemented **task dependency management**, allowing users to set and visualize dependencies between tasks.
  - ◦ Designed an **overdue task lookup system** to highlight and manage missed deadlines effectively.
  - ◦ Integrated a **task scheduling feature** for users to plan and prioritize upcoming tasks efficiently.
  - ◦ Built an **interactive task visualization** to provide a clear hierarchical view of task relationships.

SKILLS

- **Programming Languages**: Python, C++, C
- **Artificial Intelligence**: Machine Learning, Deep Learning, Generative AI, RAG LLM, AI, Computer Vision
- **Web Development**: React.js, Next.js, TypeScript, Javascript, Tailwind CSS, Bootstrap, Webflow, Wordpress
- **Databases & Tools**: MongoDB, SQL, Qdrant, GitHub, Web Hosting
- **Other Skills**: Competitive Programming, Data Structures and Algorithms, Prompt Engineering, Drone Making, Entrepreneurship

Research Work

- **Robust Audio Forgery Detection using Deep Learning** *2024 - Present*
  Digital Security and AI Research
  - Proposed a **deep-learning pipeline** for **detecting audio forgeries**, including **deepfake and copy-move forgery**.
  - Integrated **Mel-spectrogram, multi-scale feature fusion, and transformer-based attention mechanisms** for enhanced detection accuracy.
  - Addressed challenges posed by **overlapping noise and complex forgery patterns**, improving model generalization across diverse attack scenarios.
  - Experimented on the **ASVspoof 2017 dataset**, achieving **state-of-the-art performance** under both clean and noisy conditions.
  - Optimized the model for **real-time applications** by incorporating **preprocessing techniques** that enhance detection accuracy.

Achievements

- **National Level GeeksForGeeks Hackathon (Avishkaar Season 2)** - Secured **3rd Runner-up** position.
- **Statistella - IIT BHU National Level Data Analytics Competition** - Secured **3rd Runner-up**.
- **8x Finalist Positions: BITS GOA AI Hackathon, Convolve 3.0 (PAN IIT AI Hackathon), SAE India Business Plan Competition, Quarkz Hackathon, Gandhian Ideathon Competition**.
- **IICPC Merit Holder:** Secured **1324** overall rank in the IICPC organised Codefest-2025.
- **Codex (ACM_CEG)** - Achieved **4th and 1st place** in multiple editions.
- **Web Wonders (NEXUS, NIT Surat)** - **Runner-up** in the Website Design Competition.
- **Competitive Programming:** Achieved a peak rating of **1295 on Codeforces**, successfully solving **320+** problems on Codeforces and **320+ on LeetCode**.

Positions of Responsibility

- **Junior Developer,** Google Developers Group on Campus *Jan 2025 – Present*
- **Co-Head,** Technical Committee, MindBend *Nov. 2024 – Present*
- **Senior Executive,** Research and Innovation Council *jun 2024 – Present*
- **Junior Technical Member,** Phoenix Aero Drone Department *Mar 2024 – Present*
- **Member,** Nexus: Departmental Cell of CSE and AI *Sep 2023 – Present*