DISHA CHAKRABORTY

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SUMMARY

Aspiring software developer with expertise in end-to-end AI application deployment, machine learning, data science, and full-stack development. Passionate about AI-driven solutions, problem-solving, and integrating technology into real-world applications. Experienced in developing and deploying machine learning models, optimizing algorithms, and building scalable web applications.

EDUCATION

VIT Bhopal University

B.Tech, Computer Science & Engineering | CGPA: 8.5 | 2022 - 2026

Delhi Public School, Faridabad

Senior Secondary (XII), CBSE | 91.20% | 2022

Secondary (X), CBSE | 95.60% | 2020

PROJECTS

FemCare: Your Menstruation Partner (Jan 2025 - Apr 2025)

Successfully completed FemCare, a menstrual health platform featuring a chatbot, period tracker, educational resources, and product recommendations.

Designed the AI chatbot, which answers menstrual health questions, suggests healthy alternatives for cravings, and includes a child-friendly mode.

Developed personalized meal plans based on menstrual phases, pain levels, and other indicators.

Contributed to the ML-based period tracker, frontend development, and overall project management.

Technologies: Python, TensorFlow, Flask/FastAPI, React, OpenAI API, Dialogflow

DevMate: AI Developer Assistant (Hackathon Project) (Apr 2025)

Built in under 12 hours during a hackathon, DevMate is an AI-powered agent designed to assist developers with three core features: a code optimizer for multiple programming languages, a dataset generator for image, text, tabular, and time-series data, and a dataset balancer.

Led the development of the dataset generator, capable of producing diverse, realistic datasets for ML use cases.

Integrated the generator with the frontend for seamless, user-friendly access during live demos.

Technologies: Python, React, Flask, OpenAI API, Pandas, Faker, NumPy

Gait Abnormality Prediction (Jan 2024 - Apr 2024)

Led data analysis and ML model training, merging multiple datasets from the GAITREC dataset to create a customized dataset.

Achieved 97.6% accuracy in predicting gait abnormalities using KNN, SVM, and CNN.

Focused on biomechanical parameters to analyze neurological and musculoskeletal disorders.

Bird Recognition System (Aug 2023 - Oct 2023)

Trained a CNN-based ML model with 93% accuracy for real-time bird species recognition.

Integrated the trained model with an API for seamless accessibility.

Leveraged Wikipedia API to provide enriched species information.

RELEVANT EXPERIENCE

Operations Lead, Music & Band Club | VIT Bhopal University

Led cultural initiatives, event organization, and community engagement through music.

Managed multimedia production for events, enhancing stage management and backend operations.

Hackathons & Competitions

Reached the finals of a college hackathon among 100+ participating teams, showcasing AI and full-stack development skills.

Qualified Round 1 of Walmart CodeHers, a national-level coding competition for women, showcasing DSA and problem-solving skills.

Google India Girl Hackathon 2023 – Participated in a 3-day event including seminars, workshops, and hackathons.

Event & Team Management

Core team member of multiple technical and non-technical clubs.

Managed and documented planning for college fest, contributing to graphic design, stage management, and technical backend tasks.

EXTRACURRICULARS & LEADERSHIP

Music Performances and Voiceovers – Competed in the studio rounds of Indian Idol & SaReGaMaPa, gaining experience in professional music production, stage performance, and vocal training. Also provided narration and voiceovers for a podcast.

Stage Performer and Content Creator on YouTube – Produced and edited musical covers featuring Indian classical, Bollywood mashups as well as interpretations of underrated songs.

Proficient in Music Production and Video Editing, using Ableton Live, FL Studio, and Adobe Premiere Pro for YouTube content.

Proficient in Graphic Design, creating promotional materials, event posters, and digital assets using Canva, Photoshop, and Illustrator.

LANGUAGES, SKILLS & CERTIFICATIONS

Languages: English (Fluent), Hindi (Fluent), Bengali (Fluent), French (Basic)

Programming Languages: Python, C++, C, SQL

Machine Learning & AI: TensorFlow, PyTorch, OpenAI API, Computer Vision

Web Development: React.js, Node.js, Flask, FastAPI

Databases: MySQL, MongoDB, PostgreSQL

Tools & Platforms: Git, Docker, Firebase, Canva, MS Office

Certifications:

- IBM GenAI (Jan 2025 - Apr 2025) – Building AI models, exploring algorithms, deploying AI-powered applications

- IBM Introduction to Cybersecurity (Jan 2025 - Apr 2025) – Network security, data protection, risk mitigation

- Privacy and Security in Online Social Media – NPTEL (Jan 2024 - Apr 2024)

- Applied Machine Learning in Python – Coursera (Nov 2023 - Dec 2023)

- Python: Zero to Hero – Udemy (Jun 2023 - Jul 2023)

- The Complete Full-Stack Web Development Bootcamp