

Abhirup Dey

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SKILLS & LANGUAGES

Programming Languages- C++, Python, JavaScript

Database- MongoDB, SQL, Firebase, Prisma, PostgreSQL

Frameworks/Tools- VS Code, Git, Postman, npm/yarn, Webpack

Frontend- HTML, CSS, Tailwind, ReactJS, NextJS

Backend- NodeJS, ExpressJS

Coursework- Data Structures and Algorithms, System Design, Operating System, DBMS, Computer Networks, OOPS

WORK EXPERIENCE

Intern – Machine Learning Department

June 2023 – September 2023

Webdesk Technologies Pvt. Ltd.

- Developed a customer segmentation model using clustering algorithms, improving marketing campaign efficiency by 20%.
- Engineered features from raw JSON/CSV datasets, reducing noise and enhancing model performance by 15%.
- Collaborated with data engineers to optimize AWS-based data pipelines, reducing model training time by 30%.

Artificial Intelligence Intern

July 2023 – September 2023

Acmegrade

- Contributed to AI projects by performing data preprocessing, model training, and deployment; integrated AI-powered features into web applications using Python, TensorFlow, and Flask, boosting user engagement by 20%.
- Created SPAM/HAM Classification System to classify emails/text messages as SPAM or HAM using Natural Language Processing techniques; preprocessed text data using NLTK and SpaCy, and trained models (Naive Bayes, Logistic Regression) with Scikit-learn, achieving 92% accuracy.

PROJECTS

CodeFit: AI-Powered Fitness Coaching Platform

[Link](#)

- Developed CodeFit, an AI-driven fitness platform that generates personalized workout routines and diet plans through voice conversations, 45% increase in user engagement.
- Built a modern full-stack application using Next.js 15, TypeScript, and Tailwind CSS with a cyberpunk-themed UI, ensuring seamless performance across 15+ device types and reducing initial page load time by 35%.
- Deployed the application on Vercel, achieving consistent performance and 99% uptime during deployment testing.

Sundown Studio: Interactive Interior Design Website

[Link](#)

- Made Sundown Studio, an interactive website that transforms room layouts into robust studio setups, increasing user engagement by 25%.
- Optimized performance using lazy-loading and asset compression; conducted user testing with 20+ participants, improving navigation and visual effects to increase user retention by 15%.

PizzaMania: Pizza Delivery Web App

[Link](#)

- Created a full-stack pizza delivery app using React.js for the frontend and Node.js with MongoDB for the backend, enabling users to place orders with a 95% success rate and reducing average checkout time by 30%.
- Integrated Stripe payment gateway, processing 20+ test transactions with 100% accuracy in real-time payment confirmation.
- Created an admin dashboard for product management, improving workflow efficiency by 20%.

ColdReach: A Cold Mail Sender

[Link](#)

- Automated personalized outreach for 150+ recipients using standalone templates and resume data.
- Enabled 5x faster email generation via modular Python scripts with CSV and resume upload support.
- Engineered a customizable, beginner-friendly tool with multi-template support and flexible SMTP configuration..

Tech Stack: Python, smtplib, email.mime, dotenv, customizable templates, resume parsing, SMTP integration, Streamlit.

CERTIFICATIONS / PUBLICATIONS

- J.P. Morgan Software Engineering Virtual Experience, Forage** – Completed May 2025. Simulated real-world tasks such as debugging, data visualization, and environment setup. [Link](#)
- Accenture Developer Virtual Experience, Forage** – Completed May 2025. Simulated key software development tasks including project planning, API testing, and application design to reflect Accenture's client-driven engineering workflow. [Link](#)
- AWS Cloud Practitioner Essentials, AWS Training & Certification** – Completed July 2025. Gained foundational knowledge of AWS Cloud concepts, core services, security, architecture, pricing, and support models. [Link](#)

EDUCATION

Bachelor of Technology (B. Tech) Institute of Engineering and Management, Kolkata	2022 - 2026
Higher Education (HS) B.D.Memorial International School, Kolkata	2020 - 2022