

ANIL KUMAR MANDAL

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EDUCATION

IIT Bhilai

B.Tech in Computer Science

Nov 2022 – Mar 2026

CGPA: 7.50/ 10.0

Chinmaya Vidyalaya, Bokaro

HSC - Class XII

June 2019 – Mar 2021

Percentage: 90.40%

EXPERIENCE

Frontend Developer Intern

Basil Infotech

May 2024 – July 2024

Remote

- Collaborated with the UI/UX team to translate Figma designs into pixel-perfect, responsive web interfaces.
- Developed and optimized the company website using **Next.js**, **React**, **Node.js**, and **CSS**, improving load speed and user experience.
- Integrated custom CSS and design components to enhance visual appeal and consistency across all frontend pages.
- Contributed to refining layouts, boosting responsiveness, and ensuring cross-browser compatibility.

COURSEWORK / SKILLS

- Operating Systems
- Data Structures & Algorithms
- Machine Learning
- Deep Learning
- NLP & LLMs
- Compiler Design
- Computer Networks
- DBMS
- Generative AI
- Prompt Engineering

PROJECTS

Fake News Detection System

Mar 2025

- Built a hybrid deep learning model using **FastText** embeddings, **LDA** topic modeling, and **CNN-LSTM with attention**, achieving 91% accuracy and 0.89 F1-score on the WELFake dataset.
- Applied **LIME** for model interpretability, highlighting key features influencing predictions.
- Leveraged **LDA** to extract and visualize latent topics, boosting contextual understanding and improving performance by 5% over baselines.
- Performed feature engineering including preprocessing, text vectorization, and hyperparameter tuning for optimal CNN-LSTM performance.
- Outperformed traditional ML models (**SVM**, **Logistic Regression**) by up to 10% in fake news detection.

Food Delivery Website

Jan 2025

- Developed a full-stack food delivery app with a scalable backend and secure database operations.
- Built RESTful APIs in **ExpressJS** for authentication, order management, and geolocation-based address resolution.
- Integrated **MongoDB Atlas** with **Mongoose** for schema modeling and validation (Users, Orders, Food Items, Categories).
- Implemented secure login/registration using **bcrypt.js** for hashing and **JWT** for authentication.
- Utilized middleware and **express-validator** for session handling, input validation, and order history retrieval.
- Enabled location-aware delivery via the **OpenCage Geocoding API**.

AI-Integrated Portfolio Website

Apr 2025

- Developed a responsive MERN stack portfolio with dynamic project showcasing and real-time skill highlights.
- Integrated an open-source LLM chatbot for resume-based Q&A using vector search and context-aware inference.
- Implemented resume parsing and file upload with real-time embedding and retrieval using Vercel serverless functions.
- Deployed on Vercel with CI/CD via GitHub, demonstrating full-stack and DevOps proficiency.
- Designed responsive UI components and implemented real-time data visualization for enhanced user experience.

TECHNICAL SKILLS

- Languages:** Python, C, C++, JavaScript, SQL
- Frameworks & Tools:** ReactJS, Redux, NextJS, NodeJS, ExpressJS, FastAPI, Streamlit, Scikit-learn, TensorFlow, PyTorch, MLflow, Transformers, spaCy, NLTK, Pandas, NumPy, SQLAlchemy, VS Code, VIM, Sublime Text, GitHub, GitHub Actions, Docker
- Technologies:** MongoDB, MongoDB Atlas, PostgreSQL, Linux, AWS EC2, AWS S3, OpenAI API, Hugging Face, LangChain, Langflow, FAISS
- Other:** Shell Scripting, Machine Learning, Teamwork

ACHIEVEMENTS

- Achieved **2 rating** on CodeChef with a best global rank of **644**.
- Solved **500+** **Data Structures and Algorithms** problems across multiple platforms.
- Earned **6,448 points (Level 6)** on Coding Ninjas; top performer in weekly leaderboard.

POSITIONS OF RESPONSIBILITY

- Prayatna 7.0 Captain** - Annual Sports fest 2024-25, led a team of 50+ players
- Cricket Coordinator** - Coordinated more than 150 students
- Coordinator** - Coordinated Meraz'23-24, the techno-cultural fest of IIT Bhilai

(May'24 - May'25)