

Dinesh Kumar

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WORK EXPERIENCE

Java Development Intern– Infosys Springboard

May 2025 – Jun 2025

- Achieved 93% certification score; solved 50+ **OOP/Collections problems** and refactored code to improve runtime by 20% in lab benchmarks.
- Built file I/O utility to parse and validate 1,000+ daily log files; eliminated unhandled exceptions in final tests via robust exception handling and unit tests.
- Implemented **DSA solutions (arrays, linked lists, stacks, queues)** for 100+ challenges; decreased average time complexity across tasks by selecting optimal data structures.
- Collaborated via Git with code reviews in **IntelliJ/Eclipse**; reduced defect reopens by tightening commit hygiene and following branching standards.

Machine Learning Intern– Euphoria Gen-X

Aug 2024 – Sep 2024

- Improved **regression R^2** from 0.62 to 0.78 by engineering features (scaling/encoding) and tuning models in **scikit-learn**, beating baseline by 26%.
- Automated EDA and preprocessing on 50k+ rows with **Pandas/NumPy**, cutting manual **data prep** time by 40% and standardizing inputs across runs.
- Benchmarked **LR**, Ridge, **Random Forest**, and XGBoost with cross-validation; reduced **MAE** by 18% using grid search and early stopping where applicable.
- Authored setup and runbooks for the ML pipeline in Jupyter (environment config, data prep, training/eval), cutting new-joiner setup time from ~2 hours to ~30 minutes.

PROJECTS

Voice Assistant Desktop | Python, pyttsx3, SpeechRecognition

- Implemented 15+ commands (open URLs, fetch time, dictate notes), reducing routine task time by 15 minutes/day for test users.
- Boosted recognition accuracy from 80% to 93% by noise filtering, custom phrase hints, and fallback intents reduced misfires in noisy rooms.
- Added retry/confirmation logic and logging cut user-reported failures per session by 40% across test cohort.
- Prioritized high-usage intents and optimized command handling to lower latency and increase successful first-attempt executions.

AI-Powered Mental Health Chatbot | Python, SpeechRecognition, TTS

- Built a **BDI-II** screening chatbot with STT/TTS achieved 90% question recognition across 21 prompts.
- Completed end-to-end assessments in 4 minutes on average by optimizing I/O and dialog flow.
- Raised completion rate from 70% to 92% in 3 sprints via prompt iteration and edge-case handling in scoring logic.
- Modularized pipeline (NLU → scoring → feedback) and cut processing latency by 35% on mid-range laptops.

Portfolio Website | HTML5, CSS3

- Developed and deployed a responsive **personal website** scoring 95+ Lighthouse (performance) and 100 (accessibility).
- Site attracted 300+ unique monthly visitors after promotion on LinkedIn and GitHub.
- Reduced page weight via image compression and minification, improving first contentful paint and mobile load reliability.
- Showcased resume, projects, technical skills, and contact details in a clean, user-friendly design to enhance recruiter engagement.

EDUCATION

Haldia Institute of Technology, West Bengal

Bachelor of Technology in Computer Science and Engineering

Aug 2021 – Jun 2025

75.62%

College of Commerce, Arts & Science, Bihar

Intermediate

Jun 2019

72.4%

S N S D N G High School Madhubani, Bihar

Matriculation

Jun 2017

81.2%

TECHNICAL SKILLS

- **Languages** : Java, Python
- **Concepts** : OOP, Data Structures and Algorithms (DSA)
- **Frontend** : HTML5, CSS3, JavaScript
- **Machine Learning** : Pandas, NumPy, Scikit-learn, Matplotlib
- **Databases** : MySQL
- **Tools** : Git, VS Code, Eclipse, IntelliJ, Jupyter Notebook

CERTIFICATIONS

- **Infosys Springboard** : Java Foundation Certification
- **Infosys Springboard** : Programming using Java
- **Euphoria Gen-X** : Industrial Training in Machine Learning & Cloud Computing