

PRACHI SINGHAL

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Education

Noida Institute of Engineering and Technology
Bachelor of Science in Computer Science

Greater Noida , India
2022-2026

Experience

Infosys Springboard , Pragati - Path to Future

May 2025 – July 2025

Data Analyst

Remote

- Worked on hands-on projects using tools like Pandas, NumPy, Matplotlib, Seaborn, and scikit-learn to clean, analyze, and visualize data.
- Gained experience in debugging code and resolving production issues through root cause analysis and peer collaboration in agile-style sprints.
- Built a strong grasp of key concepts like Linear Algebra, Probability, Statistics, and including Natural Language Processing, all through practical learning.
- Improved technical communication by actively participating in live expert-led sessions, peer reviews, and presenting solutions clearly in team discussions.
- Delivered data-driven insights through hands-on ML tasks, improving model performance and communication flow.

Projects

MarkMind | React, Spring Boot, Flask, PostgreSQL, Firebase, Cohere API

April 2025 - May 2025

- Designed and developed a full-stack blogging platform that supports Markdown content creation with an AI-powered summarization feature for quick and concise insights.
- Built and integrated a Spring Boot backend (PostgreSQL), a React frontend with live Markdown editor, and a Flask microservice for AI text summarization using the Cohere API.
- Implemented Firebase Authentication to ensure secure, reliable, and user-friendly login/signup functionality.
- Delivered seamless end-to-end system integration, enabling smooth interaction across frontend, backend, AI service, and authentication modules.

TRITZY | Python, TensorFlow/Keras, Weather API, CNN

July 2024 - August 2024

- Developed an AI-powered web platform that combines image analysis and weather-based prediction to detect fungal disease in wheat at an early stage.
- Designed and trained a CNN model using TensorFlow and Keras to automatically identify signs of infection from leaf images.
- Integrated a Random Forest-based Weather Model that analyzes environmental data to assess the risk of disease spread.
- Provided farmers with real-time, actionable insights, leading to up to 30% earlier intervention and reduced risk of crop loss.

Technical Skills

Languages: Java, Python, JavaScript, HTML/CSS, Markdown , SQL

Frameworks: Spring Boot, Flask, React.js, Django, TensorFlow

Developer Tools: Git, VS Code, IntelliJ, Eclipse, Postman, Azure

Libraries/Technologies: Firebase Auth, Spring Security, REST APIs, Tkinter, scikit-learn

Achievements & Leadership

Katalyst 2024 Techfest – Winner: Led the team to victory in the Katalyst 2024 Techfest by delivering a standout tech solution.

French Word Power – National Participant: Participated in the national-level French language competition organized by the Prayatna Educational Society.

Activities

Kalakriti Club

Aug 2023 – Present

Leading event decoration and artistic initiatives, enhancing the college's cultural and festive ambiance.

School Head Girl

Aug 2018 – July 2020

Oversaw student council operations and led the planning of large-scale school events. .