Niharika Pant

Pre-Final Year, RGIPT | Mathematics and Computing Undergraduate
She/Her | 14th November 2004

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PROFESSIONAL SUMMARY

AI/ML enthusiast passionate about solving real-world challenges through innovation at the intersection of AI, robotics, and mathematics. Seeking a role that nurtures creativity, growth, and meaningful contributions.

EXPERIENCE

Robotics Intern   *December 2024 — ongoing*
R&DE(E), DRDO, Pune

EDUCATION

Bachelor of Technology   *2022 — 2026*
Rajiv Gandhi Institute Of Petroleum Technology   *8.42*

Class XII, CBSE Board   *2022*
St. Andrews Scots Sr. Sec. School, Patparganj, New Delhi   *91%*

Class X, CBSE Board   *2020*
St. Andrews Scots Sr. Sec. School, Patparganj, New Delhi   *92.4%*

PROJECTS

AI & ML

- **Medical Chat-bot**
  - Extracted and chunked 637 pages of data with 95% accuracy, storing embeddings in Pinecone DB.
  - Used Python, Flask, GitHub, OpenAI model, and Langchain for query processing, handling 500+ queries per day, Managed the project on GitHub for version control and collaboration.

- **Fake News Detector**
  - Built a Python-based ML system using logistic regression to classify 10,000+ news articles.
  - Delivered 92% accuracy in identifying authentic and fake information.

- **Stock Price Prediction**
  - Built an end-to-end ML application with Python, TensorFlow, and LSTM for stock price prediction.
  - Utilized 5+ years of historical data, achieving 89% prediction accuracy.
  - Integrated interactive visualizations through a web interface for real-time analysis and predictions.

- **Legal Document Classifier**
  - Developed a legal document classifier using Legal BERT and the SJP dataset (500,000+ documents).
  - Achieved 92% classification accuracy in interpreting and categorizing legal texts.
  - Streamlined legal document processing, automating workflows for 100+ documents daily.

Web Dev

- **Notion Clone Using Full Stack**
  - Built a Notion clone using NextJS, DALL•E, DrizzleORM, OpenAI, Vercel, serving 1,000+ daily users.
  - Integrated DALL•E for 500+ custom images and OpenAI for content generation.

SKILLS

Languages
- Proficient in reading, writing, and speaking English and Hindi.
- Basic proficiency in German.

Programming Languages
- Python, C Language, JavaScript, Java, C++

Design Tools
- Adobe Illustrator, Maya, Canva, AutoCAD, Figma, Adobe Photoshop

Research & Analysis
- R&D, Mathematical Modelling, DSA, Statistical Analysis, Machine Learning

Web Development
- HTML/CSS, React, MERN Stack, Node.js

Tools & Technologies
- Git, Docker, Podman

Soft Skills
- Project Management, Solution-Oriented Thinking, Versatility, Arbitration, Precision-Driven, Public Speaking

COURSES

AI & ML	• Machine Learning A-Z, Udemy	Deep Learning, MIT 6.s191	AI for Everyone, DeepLearning.AI Artificial Intelligence, MIT 6.034	Machine Learning, pythonprogramming.net
Development	• Web Development, Dr. Angela Yu (Udemy)	Python Programming, Dr. Angela Yu (Udemy)
Data Tools	• Data Analysis, pythonprogramming.net	Arduino, MIT RES.3-002
Mathematics	• Differential Equations, MIT 18.03SC

FIELD OF EXPERTISE

Core Technologies	• Artificial Intelligence	Machine Learning & Deep Learning Computer Science	Software Development
Design & Development	• UI/UX Designing	Graphic Designing Web Development	Digital Electronics
Fundamental Sciences	• Mathematics	Physics

RELEVANT COURSEWORK

Mathematics & Calculus	• Real Analysis & Calculus	Linear Algebra & Complex Analysis Differential Equations	Number Theory & Algebra	Computational PDE
Computer Science & Programming	• DSA	Programming in Python, C & Matlab	Numerical Methods	COA Statistical Methods & Data Analysis	Web Technology	DBMS	AI Operating Systems	Advanced Algorithms	Theorey Of Computation
Engineering & Technology	• Fundamentals of Electronics Engineering	Engineering Graphics
Applied Engineering	• Practices in Mathematics & Computing	Financial Engineering

POSITION OF RESPONSIBILITY

Editorial Head, ECELL	• As Editorial Head for ECELL, I led the editorial team in crafting and curating engaging content, and ensuring high-quality communication across our platforms.
Joint Secretary, Cultural Council	• As Joint Secretary of the Cultural Council, I organized and coordinated cultural events, managed event logistics, and facilitated effective communication between team members and participants to ensure successful event execution.