

ABHAY SINGH GILL

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Professional Summary

Results-driven Software Engineer with expertise in full-stack development (MERN), machine learning, and scalable system design. Proficient in architecting and optimizing high-performance web applications, implementing secure authentication, and leveraging AI-driven insights. Passionate about solving complex problems, driving innovation, and building user-centric solutions at scale.

Skills

Technical Skills:

- **Programming Languages:** C++, Python, Java, JavaScript, SQL.
- **Web Development:** MERN stack (MongoDB, Express.js, React.js, Node.js), REST APIs, JWT authentication.
- **Database:** MySQL, MongoDB, Firebase, PostgreSQL, Azure, Heroku.
- **Machine Learning & Data Science:** Statistics, Probability, ML Algorithms, Tableau, Excel, Hadoop.
- **Tools and Frameworks:** Git, VS Code, Jupyter Notebook, Docker, CI/CD, Postman.
- **Data Structures and Algorithms:** Trees, Graphs, Dynamic Programming, Recursion.

Soft Skills:

- Problem-solving, Critical Thinking, Leadership, Team Collaboration, Adaptability, Communication.

Projects

- **AI Lead Generator & Management System** ([GitHub Link](#))
 - Developed an AI-powered lead generation and management system to optimize software sales workflow.
 - Integrated AI-driven analytics for lead scoring and data-driven decision making.
 - Designed an intuitive dashboard for real-time tracking, insights visualization, and performance monitoring.
 - Built using MERN stack, OpenAI API, and FastAPI, ensuring scalability, security, and seamless integration.
- **Forest Fire Prediction System** ([GitHub Link](#))
 - Built a Flask-based web app to predict forest fires using the Algerian Forest Fires dataset with precision 85%.
 - Performed EDA to identify key climatic factors impacting fire outbreaks.
 - Deployed the model on Heroku for real-time predictions with an interactive UI.

Training

GeeksforGeeks (Self-Paced Course)

May 24 – Aug 24

- Completed a 16-week comprehensive training on Data Structures and Algorithms.
- Learned and implemented advanced topics such as Graphs, Dynamic Programming, and Recursion.
- Solved 250+ practice problems to strengthen problem-solving skills.

Certifications

- Databases and SQL for Data Science with Python – [IBM](#)
- Supervised Machine Learning: Regression & Classification – [DeepLearning.AI](#)
- Cloud Computing – [NPTEL \(IIT Kharagpur\)](#)
- Prompt Engineering for GPT-3/4 – [DeepLearning.AI](#)

Achievements

- Solved 450+ Data Structures & Algorithm problems on [LeetCode](#), [GeeksforGeeks](#), and [Codolio](#).
- Maintained a 100-day coding streak on LeetCode, demonstrating consistency and problem-solving skills.
- Participated in 5+ hackathons and coding contests, securing top 10 positions.
- Built multiple full-stack applications with scalability and performance optimizations.

Education

- **Lovely Professional University, Punjab** Aug 2022 - Jul 2026
 - B.Tech in Computer Science & Engineering
 - Relevant Coursework: Data Structures, Algorithms, Machine Learning, Web Development, Database Management
- **Sacred Heart Higher Secondary School, Sitapur, UP** Jun 2019 - Jul 2021
 - Intermediate (12th Grade) - 73.2%
- **Sumitra Public Inter College, Sitapur, UP** Jun 2018 - Jul 2019
 - Intermediate (12th Grade) - 83%