

# AKSHIT SHARMA

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## Summary

A **Versatile Engineer and Computational Modeler** obsessed with performance and system design. My expertise spans the stack: from crafting high-speed systems in **C++** and running large-scale failure simulations in **Julia/GCP**, to building, deploying, and optimizing **full-stack web applications** and **ML infrastructure**.

## Education

- **B.Tech in Computer Science Engineering (Ongoing)** | Bahra University, Shimla Hills | Current Cumulative Percentage: 65%

## Skills & Technologies

Category	Skills
Languages	Python, C++, Julia, Java
Web & Frameworks	React.js, Flask, Bootstrap, Render
Data & ML	scikit-learn, pandas, Deep Learning, Neural Networks, MySQL
Cloud & Compute	Google Cloud Platform (GCP), Firebase, IBM Cloud
Tools & Systems	Git, GitHub, OpenGL (2D), Game Physics

## Selected Projects

### Civil Accident Simulation & Analysis (Computational Modeling)

- **Architected and executed** a complex failure-mode simulation in **Julia**, leveraging **GCP Compute** to analyze 100+ **failure scenarios** and validate system resilience at scale.
- *Tech Stack: Julia, Google Cloud Platform (GCP)*

### GeoSmart Advisor (ML + Web App)

- **Pioneered** the integration of scikit-learn ML with the **Google Maps API** for a **Flask web app**, providing real-time, high-potential business opportunity suggestions.
- *Tech Stack: Python, Flask, Google Maps API, scikit-learn*

### C++ Game Engine Suite (15+ Games)

- **Wrote and shipped over 15 mini-games** via a custom, high-performance **C++ Game Engine** built on **OpenGL**, implementing proprietary physics and advanced AI.
- *Tech Stack: C++, OpenGL*

### Dream11 Team Predictor (ML Model with React UI)

- **Created** a predictive system for fantasy cricket teams by analyzing historical data with **pandas/scikit-learn**, delivering predictions via a responsive **React dashboard**.
- *Tech Stack: Python, pandas, scikit-learn, React*

### Developer Portfolio Website (Full-Stack)

- **Launched** a personal **full-stack portfolio** using **React** and **Firebase**, optimizing the entire site for best-in-class **mobile-first design** and **SEO standards**.
- *Tech Stack: React, Firebase, CSS Modules*

## Relevant Training & Programs

### Front-End Developer Intern | Amazon Full Stack Training Program

- Mastered the full-stack curriculum; delivered final project deploying responsive, component-based UIs using **React.js**.

### Machine Learning Trainee | IIITDM Jabalpur - Deep Learning Training

- Gained specialized expertise in **Deep Learning**, building and fine-tuning ML/DL models using **Python** and **Julia**.

### Cloud Developer Trainee | IBM Cloud Training

- Achieved proficiency in **IBM Cloud** infrastructure, successfully deploying and scaling applications.