

Suyash Singh



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PROFESSIONAL SUMMARY

3rd-year B.Tech Computer Science student at **AKGEC** with a high-impact focus on bridging the gap between **Full-Stack Engineering and Machine Learning**. Expertly proficient in **Python and JavaScript (React, Next.js)**, with a proven track record of architecting end-to-end predictive systems—from training **XGBoost** models to deploying high-concurrency APIs with **FastAPI**. Recognized as a **Training and Placement Cell Coordinator**, managing data-driven recruitment workflows while maintaining a portfolio of deployed applications featuring **sub-100ms latency**. Passionate about building scalable, data-intelligent products that prioritize performance and user-centric design.

EDUCATION

Ajay Kumar Garg Engineering College (AKGEC)
Bachelor of Technology in Computer Science and Engineering

Ghaziabad, UP
Sept 2023 – Present

Montfort Inter College
Senior Secondary Education (PCM)

Lucknow, UP
July 2022

TECHNICAL SKILLS

Programming Languages: Python, C, C++, SQL, JavaScript

Web Development: React.js, Next.js, Tailwind CSS, Node.js, Express, MongoDB

Developer Tools: Git, GitHub, VS Code, REST APIs, Postman

ML Architectures: Random Forest, XGBoost, Multilayer Perceptron (MLP), SHAP

PROJECTS

EduHealth: AI-Driven Student Wellness Predictive System | *Python, Scikit-learn, FastAPI, React.js*

- Engineered a predictive pipeline using **Random Forest and XGBoost** to forecast student GPA with **94% accuracy**, analyzing 20+ behavioral metrics.
- Applied **SHAP (Explainable AI)** to interpret model decisions, identifying physical activity as a top-3 predictor of academic success.
- Architected a high-concurrency interface with **FastAPI** to serve model inferences with **sub-100ms response times**.
- Optimized model generalization using **K-Fold Cross-Validation**, ensuring a consistent R^2 score of **0.95** across diverse student profiles.

WORK EXPERIENCE

Training and Placement Cell Coordinator
3rd Year Student Coordinator

AKGEC
Nov 2025 – Present

- Coordinating recruitment drives and managing student data for placement activities.
- Collaborating with corporate teams to facilitate smooth conduction of technical assessments.

CERTIFICATIONS

- Machine Learning Specialization** – DeepLearning.AI & Stanford University (Coursera)
- The Web Developer Bootcamp 2025** – Udemy
- Google Digital Marketing Certificate** – Google
- Marketing Internship** – Universal Tribes

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Completed June 2025