KARAN SHAH

HIGH SCHOOL SENIOR

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- https://kingcodergithub.github.io/my-resume/
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SKILLS

- Python programming & data analysis (pandas, NumPy, scikit-learn)
- Machine learning model development (XGBoost, imbalance handling)
- Spatial data & GIS analytics
- Web deployment of ML applications (FastAPI, Streamlit)
- Model interpretability & explainability (SHAP)
- Critical thinking & data-driven problem solving
- Initiative & self-directed learning
- Collaboration in multidisciplinary teams
- Effective communication of technical ideas
- Time-management & meeting project deadlines

INTERESTS

Artificial Intelligence • Product Design • Entrepreneurship • Technology & Sustainability • Data Science • Mathematics

EDUCATION

Dimensions International College Singapore
May 2022 – June 2024

Compass International School Doha
August 2024 – May 2026

- International Baccalaureate Diploma Program candidate with 3 stem higher levels. **Predicted : 43, Class of 2026**
- Subjects: Physics HL, Mathematics: Analysis & Approaches HL, Computer Science HL, Economics SL, English Language & Literature SL, French B SL
- SAT: **1530** (Superscore: 1510 single sitting)
- IELTS: **8.5**
- IGCSE: **5 A*, 1 A**
- Valedictorian (Star Student of the Year award)

EXPERIENCE

Machine Learning Intern
August 2025 - September 2025

- Built and deployed an explainable stroke-risk prediction model using XGBoost and SHAP, achieving ~80% accuracy and <500 ms latency.
- Created a privacy-respecting FastAPI–Streamlit web app to make AI-driven health insights accessible to the public.

LEADERSHIP

Prefect (1 year) & House Captain (2 years)
- Led inter-house events and supported student discipline and event organization.

Chairman, Eco Schools Green Flag Program
- Directed sustainability initiatives; earned the school's Green Flag recognition.

University of Cambridge Judge Business School Personal Development Course - **Team Leader**

AWARDS AND HONORS

- UKMT Gold Winner
- International English Olympiad — Rank 67 internationally
- Gold Medals — Math, English, and Science Olympiads
- STEM Practical Program Winner
- Best Speaker award in Intra-school Debate
- 800m running medal – School Level Competition
- French Quiz and Speech winner

PROJECTS & RESEARCH

Fruit Freshness Detection App — Machine Learning | Personal Project
 • Designed and trained a computer vision model to classify fruit as ripe, rotten, or fresh using TensorFlow.
 • Achieved 75–80% accuracy; building mobile and web apps using React Native & TensorFlow.js.

Stroke Predictor App – Enterprise
• Built and deployed an explainable stroke–risk prediction model using XGBoost and SHAP, achieving ~80% accuracy and <500 ms latency.
• Created a privacy-respecting FastAPI–Streamlit web app to make AI-driven health insights accessible to the public.

GIS Mini–Projects — Internship
 • Contributed to geospatial visualization tools and small-scale mapping projects under mentor supervision.
Interactive Resume Website — Portfolio Project
 • Designed and coded a personal website showcasing all academic, project, and extracurricular achievements.

CERTIFICATIONS

Coursera Specializations
 • Data Science (12 courses, 6 months)
 • Cybersecurity (8 courses, 6 months)
 • Program Management (3 months)

Other Certifications
 • ISRO Online Space Program (India)
 • Deloitte Problem–Solving Certification
 • Certified Android & iOS App Developer — WhiteHat Jr (144+ live hours, 144+ project hours)
 • Certified Game Developer — WhiteHat Jr

ONLINE PRESENCE

YouTube Channel: "Did You Know?" –
https://www.youtube.com/@didyouknow858
 • 75,000+ lifetime views | 100+ subscribers | 300+ watch hours
 • Creates educational and myth–busting shorts on AI, science, and technology.
Portfolio Website: https://kingcodergithub.github.io/my-resume/
Blog – https://karansdailydoseofwisdom.wordpress.com/