

ISHAN GUPTA

+91 9918163737 | ishangupta409@gmail.com | Portfolio | GitHub | LinkedIn | LeetCode

EDUCATION

Ajay Kumar Garg Engineering College

Bachelor of Technology in Information Technology —

Ghaziabad, India

Graduation: June 2025

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL (3+ years combined experience)

Web Technologies: React.js, FastAPI, Flask, Node.js, Express.js, HTML5, CSS3, Bootstrap

Machine Learning & AI: TensorFlow, Keras, Scikit-Learn, Computer Vision, NLP, Transfer Learning

Databases: MongoDB, PostgreSQL, MySQL (designed schemas for 5+ projects)

Developer Tools: Git, GitHub (500+ commits), Docker, REST API, Chrome Extension API

Core Competencies: Data Structures, Algorithms (700+ problems solved), Object-Oriented Programming, Full-Stack Development

PROJECTS

CalScan - AI-Powered Nutrition Analysis Application [GitHub](#)

November 2024

Technologies: Python, Streamlit, TensorFlow, Keras, NumPy, USDA FoodData Central API, Pillow, REST API

- Built end-to-end computer vision application processing 50+ food images daily with 92% accuracy, enabling instant nutritional analysis with calorie and macronutrient breakdowns covering 101 food categories.
- Architected scalable inference pipeline supporting 7 pre-trained models (MobileNet, EfficientNet, ResNet50) using Strategy Pattern; developed Ensemble Classifier improving prediction accuracy by 15% over single models.
- Integrated USDA FoodData Central API with session management to retrieve detailed nutrient profiles from 300,000+ food items; optimized model loading using Streamlit caching to reduce latency by 40% (from 5s to 3s).

NFS-Most-Wanted - OSINT Intelligence Platform [GitHub](#)

September 2024

Technologies: Python, FastAPI, React.js, Scikit-Learn, BeautifulSoup, TF-IDF, Bootstrap, Google Dorking

- Developed machine learning pipeline processing 10,000+ data points utilizing Scikit-Learn and TF-IDF vectorization; deployed classification models achieving 85% accuracy for gender prediction and 78% for interest categorization.
- Designed automated web scraping framework aggregating data from 5+ platforms (GitHub, Google Images, social media) with 95% uptime; processed 500+ user queries reducing manual search time by 70%.
- Built full-stack application with FastAPI backend (8 REST endpoints) and React-Bootstrap frontend, serving 200+ concurrent users with average response time under 2 seconds for real-time digital footprint visualization.

Group_It - Productivity Chrome Extension [GitHub](#)

January 2025

Technologies: JavaScript, Chrome Extension API, HTML5, CSS3

- Engineered lightweight Chrome extension (~50KB) enabling one-click bookmarking of entire tab groups, improving browser workflow efficiency for 150+ active users with 4.8/5.0 average rating.
- Engineered automated folder creation in bookmarks bar processing 1,000+ tabs monthly with dynamic naming based on tab group titles, reducing bookmark organization time by 60%.
- Integrated context menu API for right-click functionality; achieved 98% success rate in tab restoration with zero data loss across 500+ test cases.

CERTIFICATIONS

Google Data Analytics Professional Certificate - 4 courses, 240+ hours

July 2024

Python and Flask Web Development - 40 hours, Score: 95%

June 2024

ACHIEVEMENTS & COMPETITIONS

Smart India Hackathon (SIH): Internal Hackathon Qualifier - Top 5 among 50+ teams

2024

- Developed browser extension with NLP sentiment analysis achieving 82% accuracy to assist muted individuals in communicating during video conferences; processed 200+ test messages in real-time.

Competitive Programming: Solved 800+ problems on LeetCode; Rank in Top 10% globally

2022 - 2025

- Optimized 150+ algorithmic solutions ranking in top 10% for runtime performance; maintained 300+ day streak with consistent contest participation (10+ contests, Rating: 1770+).