GAURAV JOSHI

Computer Science Student | AI & Data Science Specialist

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PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate specializing in AI and Data Science with expertise in machine learning, deep learning, and full-stack development. Demonstrated ability to design end-to-end AI solutions including network security systems, computer vision applications, and intelligent automation tools. Seeking software development internship to leverage technical skills in Python, TensorFlow, and cloud technologies.

EDUCATION

Bachelor of Computer Science - AI & Data Science | Expected: June 2027
Graphic Era Hill University, Dehradun, Uttarakhand

TECHNICAL SKILLS

Programming: Python, C, SQL
AI/ML: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, NLTK
Web Development: Flask, Streamlit, RESTful APIs
Tools: Git, Docker, Linux, VS Code, Jupyter Notebook, Google Colab
Databases: MongoDB, MySQL, SQLite3

PROJECTS

Network Security Threat Classifier | Python, Scikit-learn, MongoDB

- Engineered ML classification model achieving 92% accuracy in detecting network threats
- Implemented complete MLOps pipeline with automated evaluation reducing testing time by 65%
- Technologies: Decision Trees, Random Forest, MongoDB, feature engineering

Plant Disease Detection System | TensorFlow, Keras, Streamlit

- Built CNN achieving 94% accuracy for plant disease identification across 15+ categories
- Deployed real-time Streamlit web application with image preprocessing pipeline
- Optimized model architecture reducing inference time by 50%

AI Virtual Assistant | Python, NLP, Speech Recognition

- Developed voice-controlled assistant with speech recognition and NLP capabilities
- Integrated multiple APIs for real-time information retrieval and task automation
- Implemented modular architecture supporting 15+ voice commands with 60% memory optimization

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CERTIFICATIONS

Complete Data Science, ML, Deep Learning, NLP Bootcamp - Udemy (Krish Naik)
Mathematics for Data Science and Generative AI - Udemy (Krish Naik)

KEY ACHIEVEMENTS

- Completed 3 end-to-end AI/ML projects with measurable performance improvements
- Self-taught advanced Python programming and modern ML frameworks
- Quick learner with proven ability to master new technologies and frameworks

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ADDITIONAL TECHNICAL EXPERIENCE

Technical Proficiencies

Machine Learning: Supervised/Unsupervised learning, Classification, Regression, Ensemble methods
Deep Learning: CNN, RNN, Neural Networks, Transfer learning
Computer Vision: Image preprocessing, Object detection, Feature extraction
NLP: Text processing, Sentiment analysis, Speech recognition
Development: RESTful API design, Code documentation, Git workflows

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PROFESSIONAL DEVELOPMENT

Industry Knowledge

- Staying updated with latest AI/ML research and Generative AI developments
- Understanding of AI ethics, bias detection, and responsible AI development
- Proficient in Agile methodologies and best coding practices

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TECHNICAL EXPERTISE SUMMARY

Core Strengths:

- End-to-end ML pipeline development from data ingestion to deployment
- Computer vision applications with CNN architecture optimization
- Natural language processing and speech recognition systems

Development Tools:

- Version Control: Git/GitHub with collaborative workflows
- Containerization: Docker for application deployment
- Cloud Platforms: Google Colab, basic cloud computing knowledge
- Testing: Unit testing frameworks, model evaluation metrics
- Documentation: Technical writing, code documentation
