Abhishek Kumar

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Education

Indian Institute of Information Technology Guwahati — Bongora, Assam
Bachelor of Technology in Computer Science and Engineering | 6.97 CGPA (Up to 6th sem) — *Dec. 2021 – June 2025*

Goethal Higher Secondary Public School — Bhagalpur, Bihar
CBSE, HS in Science Stream | 77.60% — *Passing Year – 2019*

Techno Mission International School — Bhagalpur, Bihar
CBSE 10th | 10 C.G.P.A — *Passing Year – 2017*

Work Experience

IIIT Guwahati | Project Intern under Dr. Rakesh Matam *(May 2024 – Present)*

- Extended the visual malware classification with a focus on optimizing Convolutional Neural Network (CNN) weights using backpropagation inaddition to reduce the feature space by 50% using PCA and IG that significantly decreased classification time. And, achieved a 5% increase in classification accuracy through optimized training methods.

Achievements

– Secured 17th in institute in Algo-University Contest
– Solved 250+ problems on Leetcode
– Google Cybersecurity Specialization
– 2* at Codechef
– 4* at Hackerrank

Technical Skills

Languages: C++ (with STL), Java, JavaScript, HTML, CSS, SQL, Linux Command
Frameworks & Libraries: Basic React.js, Node.js, Express.js
Databases: MySQL, Cloud Databases
Problem Solving: DSA, CP
Developer Tools: Git, VS Code, Amazon Web Services (AWS), Microsoft Azure
Relevant Coursework: DSA,ML,Compilers,OOPs,DBMS,OS, Networks,Computer Security, Cloud Computing, Entrepreneurship

Projects

Housing Management Project | Java, Java.Swing.fx, MySQL — Source Code

- Collaborated on a housing project as part of my Computer Science studies
- Gained experience in teamwork, project planning, and problem-solving
- Worked with a team to plan and create a housing development
- Contributed to promoting the project and attracting potential buyers

RDP Attack Geolocation Mapping in Azure Sentinel | Azure Sentinel, Log Analytics, Windows Event Viewer

- Extracted metadata from Windows Event Viewer to be forwarded to third-party API in order to derive geolocation data
- Configured Log Analytics Workspace in Azure to ingest custom logs containing geographic information (latitude, longitude, state/province, and country)
- Configured Azure Sentinel (Microsoft's cloud SIEM) workbook to display global attack data (RDP brute force) on world map according to physical location and magnitude of attacks

CyberVision: Advanced Visual Malware Classification | Python, TensorFlow, Keras, scikit-learn — Source Code

- Developed a malware classification system using convolutional neural networks (CNNs) and the malimg dataset
- Utilized MobileNetV1, MobileNetV3 Small, MobileNetV3 Large, and ResNet50 for feature extraction
- Implemented various classifiers including Decision Tree, KNN, SVM, Random Forest, and Naive Bayes
- Enhanced feature extraction using backpropagation, resulting in increased accuracy
- Achieved high accuracy with different combinations of CNNs and classifiers
- Documented the project and results in a detailed architecture diagram and description of the dataset