Rakshit Rautela

Computer Science Student

Skilled in Linux, Java, Python, Golang, Javascript, and SQL. Interested in Artificial Intelligence and Web Development.

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Education

- **B.Tech (CSE)**
  Graphic Era Hill University, Dehradun, India
  June 2021 - Present

Projects

- **Collaborative Document Management Platform**
  Document management system with real-time collaboration, version control, and easy document sharing.
  Technologies: Java, Azure, Spring Boot, WebSocket, MySQL

- **Online Code Editor**
  An online code editor enabling users to execute code in various languages (C, Java, Python, Golang). Deployed as a Docker container on Amazon EC2.
  Technologies: ReactJS, NodeJS, MongoDB, Docker, AWS

- **Question Answering Chrome Extension Using Google BERT**
  QnA Chrome Extension to extract webpage text and provide quick answers to user questions, using Natural Language Processing, enhancing browsing experience.
  Technologies: NLP, Deep Learning, Python, BERT

- **Student Management Desktop Application**
  Developed a streamlined desktop application utilizing SQL Database to store, manage, process, and compile student data for an institute.
  Technologies: MySQL, Java

- **MediDetect - Automated Multi-Medical Image Classification System**
  Medical image classification web app categorizes uploaded images (e.g., brain tumors, lung cancer, bone fractures) and validates positivity/negativity.
  Technologies: Python, Django, Docker, AWS, PostgreSQL

Skills

- Linux • Java • Python • Golang • SQL • Bash • Git • Microsoft Azure • Amazon AWS • Docker • C/C++ • HTML/CSS • ReactJS • NodeJs • MongoDB • Javascript • Flask • Django • Pytorch • Keras • NLP • CI/CD • Spring Boot • WebSocket • Nginx • Computer Vision • Web App Security

Achievements

- **Bug Bounty (Web Application Security)**
  Have participated in various bug bounty programs to find vulnerabilities affecting companies like Paypal, Coinbase. Web Application Pentesting - **Hackerone Profile**

Publications

- **Deep Learning-Based IoT Malware Detection Using CNN and Transfer Learning: A Comparative Study**
  Researched IoT malware analysis with deep learning and VGG16 classification.

- **Decoding the Textual Symphony: A Comparative Study of RNN, LSTM, and GRU Architectures for Sequential Text**
  Assessed RNN, LSTM, and GRU architectures for text processing.