BHARGAV KOTIPALLI

+1 (856) 688 4424 · bhargav.nm88@gmail.com · King of Prussia, PA 19406 · LinkedIn · GitHub

EDUCATION

HARRISBURG UNIVERSITY OF SCIENCE & TECHNOLOGY **August 2024**
Masters in computer information sciences, *Cybersecurity, GPA: 3.75* *Harrisburg, PA*
Coursework: Data Structures & Algorithms, Big Data Architectures, Cyber Security

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY **August 2021**
Bachelor of Technology in Computer Science *India*
Coursework: Java, Database systems, Python, ML, Web Technologies

SKILLS

Languages: C, C++, Python, JAVA, SQL, HTML5 & CSS3, JavaScript, NodeJS, JSON

Cybersecurity Tools: Nessus, Burp Suite, Metasploit, Kali Linux

Cloud Technologies: Google Cloud Platform (GCP), AWS(familiar)

Databases and Version Controls: MS SQL Server, SQL, Git, GitHub

MS Office Tools: Word, Excel, PowerPoint, Visio

PROFESSIONAL EXPERIENCE

INMOVIDU TECHNOLOGIES, KARNATAKA, INDIA **Feb 2020 – Jan 2021**
Web Technology Development Intern

- Created and executed a responsive **HTML5, CSS3**, and **JavaScript** university website, guaranteeing the best possible user experience across platforms.
- Implemented dynamic content rendering using **EJS** templating in **Node.js**, enhancing user personalization and site interactivity.
- Built robust server-side logic and **RESTful API** endpoints in Node.js to facilitate seamless data communication.
- Utilized **Git** for version control within **Visual Studio Code**, streamlining collaborative development and maintaining code quality.

PROJECTS

Credit card fraud detection using SVM – Machine Learning, AI

- Selected credit card fraud detection to tackle a significant financial security challenge.
- Implemented a detection modal using python and support vector machines with data preprocessing and feature engineering.
- Successfully identified fraudulent transaction with high accuracy, demonstrating the effectiveness of SVM.

Hosting a website – Web Development

- Aimed to create university website to boost accessibility and user engagement.
- Developed an interactive site utilizing HTML5, CSS3 and JavaScript for dynamic and responsive design.
- Successfully launched a user-friendly website that enhanced user experience through cutting-edge web development practices.

Comprehensive Penetration Testing and Vulnerability Assessment – Ethical Hacking, Cybersecurity

- Focused on strengthening cybersecurity by identifying and addressing potential security vulnerabilities.
- Conducted comprehensive vulnerability assessments and penetration testing using tools like Kali Linux, Nessus, Burp Suite, and Metasploit.
- Successfully detected and mitigated security flaws in networks and web services, enhancing overall system security.

COVID-19 Risk Factor Analysis Using Big Data Architectures – Data Analysis

- Chose to analyze COVID-19 risk factors to better understand the pandemic's impact using big data techniques.
- Utilized Apache Hive, Google Cloud Platform (GCP), and python to identify key correlations and patterns in COVID-19 data.
- Successfully uncovered significant trends correlations, visualized effectively with Amazon Quick Sight, providing valuable insights.

THESIS

Enhancing AI interpretability with prototypes in explainable AI Systems – CNN, RNN, Explainable AI (XAI)

- Chose to enhance AI interpretability to improve understanding of AI decision- making in climate forecasting.
- Developed a climate forecasting modal using CNNs and RNNs, incorporating prototypes to make AI predictions more understandable.
- Improved forecasting accuracy and model transparency, making AI systems more interpretable and reliable.