JAYASHRE K

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EDUCATION

Bachelors in Computer Science and Engineering, Shiv Nadar University, Chennai — August 2026
Specializing in Computer Networking & Cybersecurity.

Biology, Srimathi Sundaravalli Memorial School, Chennai — 2014 - 2022
High School.

SKILLS

Programming Languages	C/C++, Python, Java, JavaScript, HTML/CSS, SQL, Solidity, Scala, Kotlin, Haskell, Shell & Bash Scripting, Typescript.
Tools & Technologies	Git, NodeJS, ReactJS, ElectronJS, Flask, Django, NextJS, ELK Stack, ViteJS, Power BI, Wireshark, Firebase, FastAPI, Bootstrap.
Soft Skills	Project Leadership, Effective Communication, Agile Adaptability, Analytical Problem Solving, Collaborative Teamwork, Strategic Planning.

PROJECTS

DataVeilAPI. Developed a *Django REST API* for **data anonymization**, employing **eight** advanced techniques to protect sensitive information, ensuring comprehensive privacy and security.

SecuScan. Built a *VS Code extension* using *TypeScript* and *Webpack* to automate **vulnerability scanning of project dependencies**, providing enhanced security insights through seamless integration with the *NVD API*.

WebShield. Created a **phishing detection** solution with a *Chrome extension* using *ReactJS*, *Bootstrap, FastAPI*, and *Firebase*, achieving **98% accuracy** across **five machine learning** models and significantly improving online security.

SecureDash. Implemented a **real-time monitoring dashboard** utilizing *ElectronJS, HTML/CSS*, and *JavaScript*, integrated with *Flask* and *PowerBI*, boosting **Smart Grid security** by **90%** through advanced **machine learning** techniques.

BotDetect. Designed a **graph-based ML model** for **botnet detection** using *Flask, HTML/CSS* and **Javascript**, enhancing detection rates and robustness by **95%** and effectively countering **zero-day attacks**.

AirPic. Led the development of a **gesture-controlled app** using *Kotlin, CameraX*, and *Material UI*, incorporating *TensorFlow-Keras* for **sophisticated gesture recognition capabilities**.

PenGUIn. Co-created a **Linux** application using *PyGTK* and *Shell Script*, simplifying **OS hardening** on *Ubuntu* with a **user-friendly interface** and **one-click access** to **essential and advanced features**.

EXPERIENCE

Summer Research Fellow — May 2024 - July 2024
IAS-INSA-NAS — *Dharwad, Karnataka, India*
Contributed to research on **visual-based malware classification** with Dr. Pavan Kumar C, supporting efforts to improve accuracy by **98%** through **advanced image processing and machine learning techniques**.

Technical Content Writer Intern — July 2023 - Sept 2023
CoConnexion — *Indore, Madhya Pradesh, India*
Authored impactful **tech blogs and articles** on **emerging technologies** for LinkedIn and Medium, establishing a **strong online presence**.

PUBLICATIONS

1. **Jayashre**, Raahul, Roahith & Shanmathi. (2024). **Campus Placement and Salary Prediction: Leveraging Machine Learning for Enhanced Employability**. IFIP Advances in Information and Communication Technology (IFIPAICT), Volume 718, Springer Nature. 10.1007/978-3-031-69986-3_9.
2. **Jayashre**, & Amsaprabhaa, M. (2024). **Safeguarding Media Integrity: A Hybrid Optimized Deep Feature Fusion based Deepfake Detection in Videos**. Computers & Security, Elsevier. Annexure 1 (Q1 Journal). 10.1109/GCITC60406.2023.10426394.

ACHIEVEMENTS

- **March 2023** - Selected as a **2023 Women Engineer Scholar**, ranking in the **top 1% among 27,000** applicants for the **TalentSprint-Google** supported program.
- **March 2024** - Awarded **first prize** in **Cyber Colloquy 3.0: Deepfake Discovery Global Hackathon**, organized by Shah And Anchor Kutchhi Engineering College, with a cash prize of **Rs. 5000**.