

JAYASHRE K

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EDUCATION

Bachelors in Computer Science and Engineering, Shiv Nadar University, Chennai Expected 2026
Specializing in Cybersecurity.

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

SKILLS

Programming Languages C/C++, Python, Java, JavaScript, HTML/CSS, SQL, Solidity, Scala, Kotlin, Haskell.
Tools & Technologies L^AT_EX, Shell & Bash Scripting, Git/GitHub, Sphinx, NodeJS, ReactJS, ElectronJS, Flask, 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

WebShield. Engineered a **phishing detection** solution using a **Chrome extension**, *ReactJS* with *Bootstrap*, *FastAPI*, and *Firebase*, achieving **98% accuracy** across **5 machine learning models** and significantly enhancing **online security**.

SecureDash. Developed a real-time **monitoring dashboard** using *ElectronJS*, *HTML/CSS*, and *JavaScript*, with integration into *Flask* and *PowerBI*. Enhanced **Smart Grid security** by **90%** through **machine learning improvements**.

BotDetect. Designed a **graph-based ML model** for **detecting botnets** using *Flask*, *HTML/CSS*, *JavaScript*, and *Python*. Improved detection rates and robustness by **95%**, effectively tackling **zero-day attacks**.

HireMeHorizon. Contributed significantly to creating a **predictive website** using *Python*, *ReactJS*, *HTML/CSS*, and *JavaScript* with a *Flask* backend. Improved **campus placement outcomes** by **94%** with **accurate salary predictions**.

AirPic. Directed the creation of a **gesture-controlled app** with *Kotlin*, *CameraX*, and *Material UI*, integrating *TensorFlow-Keras* for advanced **gesture recognition**.

PenGUIn. Co-developed a user-friendly **Linux** application using *PyGTK*, and *Shell Script*. The app streamlined **OS hardening** on *Ubuntu* with **essential** and **advanced features** accessible through one-click options.

EXPERIENCE

Summer Research Fellow May 2024 - July 2024
IAS-INSANAAS 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, Padmavathi U, Harshitha R S, Nidhi G. (2024). **Integrating Cyber-Physical Systems for Enhanced Efficiency in Healthcare Solutions**. Technologies for Sustainable Healthcare Development. IGI Global. 10.4018/979-8-3693-2901-6.ch017.
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**.