

Jayashre K

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EDUCATION

Shiv Nadar University, Chennai

August 2026

B.Tech in Computer Science and Engineering, specializing in Cybersecurity

Sri Srimathi Sundaravalli Memorial School, Chennai

June 2022

Biology - Math

SKILLS

Languages & Tools: C/C++, Python, Java, JavaScript, HTML/CSS, \LaTeX , SQL, Solidity, Scala, Kotlin, Shell & Bash Scripting, Git/GitHub, Sphinx, ReactJS, ElectronJS, Flask, NextJS, ViteJS, Microsoft Suite, Wireshark, Burpsuite

Interpersonal Skills: Leadership, Time Management, Effective Verbal & Written Communication, Adaptability, Problem Solving

PROJECTS

SecureDash | *ElectronJS, HTML, CSS, Javascript, Flask, Python, PowerBI, MySQL, TensorFlow-Keras*

May 2024

- A real-time monitoring dashboard leveraging machine learning to enhance Smart Grid security against cyber threats.

BotDetect | *Flask, HTML, CSS, Javascript, Graph Tool, Python, Machine Learning, Wireshark*

March 2024

- A graph-based ML model for botnet detection utilizing feature selection to enhance detection rates, reduce complexity, and improve robustness against zero-day attacks.

HireMeHorizon | *Python, ReactJS, HTML, CSS, Javascript, Flask, Machine Learning*

Dec. 2023

- Key contributor to developing a predictive website leveraging machine learning, enhancing campus placement for undergraduates in engineering and commerce, including salary prediction.

AirPic | *Kotlin, CameraX, Material UI, Tensorflow-Keras, Figma, Android Studio*

Nov. 2023

- Played a key role in developing Airpic, a cutting-edge gesture-controlled app that revolutionizes photo capture with its intuitive interface and sets a new standard in camera interaction

PenGUIn | *PyGTK, Shell Script, System Security*

Oct. 2023

- Team-developed user-friendly Linux app for SIH 2023 Hackathon, enabling essential and advanced OS hardening on Ubuntu with streamlined one-click features.

Deepfake Detection with InceptionResNetV2 & BiLTSM | *OpenCV, CNN, RNN, Google Colab*

Sept. 2023

- Developed a 90%+accurate deepfake detection model from 400 Kaggle videos, enhancing digital forensics, and created a user-friendly detection website.

EXPERIENCE

Summer Research Fellow | *IAS-INSANAAS*

May 2024 - Ongoing

Selected as a Summer Research Fellow by the prestigious Science Academies of India, conducting research under the guidance of Dr. C Pavan Kumar at IIIT Dharwad

Technical Content Writer Intern | *CoConnexion*

July 2023 - Sept 2023

Writer of tech blogs and articles on emerging technologies for LinkedIn and Medium.

PUBLICATIONS

Jayashre, & Amsaprabhaa, M. (2024). **Safeguarding Media Integrity: A Hybrid Optimized Deep Feature Fusion based Deepfake Detection in Videos.** *Computers & Security, Elsevier, 142*, 103860. 10.1016/j.cose.2024.103860, Impact Factor: 5.6, Annexure 1 (Q1 Journal).

ACHIEVEMENTS

July 2023 - Selected as a SheCodes Foundation scholar, honing web skills and actively engaging in a vibrant coding community.

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.