Sowndarya Krishnan Navaneetha Kannan

+1 (539) 895 1874 · sowndaryakrishnanna@mines.edu · krishnaofficial27@gmail.com

🌐 skfyi.com · github.com/krishnanN27 · in linkedin.com/in/krishnan-n/

Education

Colorado School of Mines **May 2025**
M.S. in Computer Science GPA: 3.6/4.0 *Colorado, USA*

Anna University **Aug 2018 - July 2022**
B.E. in Electronics & Communication Engineering GPA: 8.56/10 *Chennai, India*
- **Graduated: First Class with Distinction**

Experience

Data-Driven CPS Lab ↗ **Aug 2023 – Present**
Research Assistant *Golden, CO*
- Researching SHACL validation and inference under Dr. Gabe Fierro, focusing on RDF graph acceleration.
- Enhancing scalable data validation for real-time IoT and Smart Cities applications.

Interdisciplinary Project Funded by Sloan Foundation ↗ **May 2024 – Present**
Frontend Developer *Leadville, CO*
- Designed frontend solutions for managing community energy consumption data.
- Developed a community dashboard with real-time visualizations, prioritizing usability and accessibility.

Interdisciplinary Project Funded by Sloan Foundation ↗ **Jan 2023 – May 2024**
Backend Engineer *Leadville, CO*
- Implemented scalable backend solutions for processing large time-series energy data.
- Developed data pipelines and optimized retrieval for real-time analysis.

BrickSchema Ontology ↗ **June 2024**
Contributor *Data-Driven CPS Lab*
- Developed a global search functionality, solving a critical usability issue.

NCompass Tech Studio Pvt. Ltd ↗ **May 2021 – Aug 2023**
Mobile Engineer, Frontend Engineer & Cloud Engineer *Chennai, India*
- Improved UI/UX for an Android app, increasing downloads by 35% in the Play Store.
- Developed custom components, boosting internal tool adoption by 25%.
- Achieved a 98% bug-free release rate by implementing test-driven development (TDD) and integrating CI/CD pipelines.
- Worked across the software development lifecycle (SDLC), from requirement gathering and agile sprint planning to development, testing, and deployment.
- Led code reviews and pair programming sessions, improving code quality and knowledge sharing across teams.

Projects

LLM-Prompt-Recovery ⬈   **Dec 2024**
Fine-Tuning GPT-2 for Prompt Generation

- Developed a GPT-2-based model for generating rewrite prompts, exploring generalization improvements.

Echoes of Equality ⬈   **Feb 2022**
BlasterHacks Hackathon - 1st Place Winner

- Designed a social platform for LGBTQIA+ mentorship, securing first place in two competition tracks.

EMI Calculator ⬈   **May 2023**
Multi-Platform Loan EMI Calculator using Flutter

- Built a Flutter-based EMI calculator with a user-friendly UI and PDF generation support.

Auto File Organizer ⬈   **Jan 2022**
Automated File Management using Python

- Created a Python script to automatically categorize and organize downloaded files.

PS: For more projects, check out my GitHub: ⬈ **KrishnanN27**

Notable Awards & Participation

Best Poster Presentation Award   **Jan 2025**
CMAPP Honors Event, Colorado School of Mines

- Awarded for delivering the **best pitch** and presenting the **best poster**.

BlasterHacks Hackathon Winner ⬈   **Feb 2022**
Echoes of Equality, Colorado School of Mines

- Won 1st Place in **Beginner** and **LGBTQIA+** Categories for developing an impactful social platform & received judges' recognition for innovation. ⬈

Undergraduate Research Symposium Judge (x2)   **Sept 2024 & April 2024**
Colorado School of Mines, Golden, CO

Best Presentation Award   **March 2022**
ECUBE Event, Meenakshi Sundararajan Engineering College

Hostel Representative & Vice President   **2016 − 2017**
ECE Department, Meenakshi Sundararajan Engineering College

- Led departmental initiatives and events, organized college symposiums, and provided a platform for students to showcase talents.

Technical Skills

Programming Languages: Python, Java, C, C++, Rust, JavaScript (Node.js, Next.js, Angular.js, React, TypeScript), SQL, Flutter, LISP, OCaml, HTML/CSS, Go
Technologies & Frameworks: Power BI, Business Intelligence, Android App Development, Firebase, SHACL, SHACL-AF, Linux, MATLAB, Docker, Grafana, Terraform, AWS, GCP, Azure, DevOps, MS Office, LaTeX, WordPress
Tools: Git, VS Code, Android Studio, Eclipse, Vim, Power BI
Certifications:

- Cyber Security: From Beginner to Expert — *Udemy*

- Machine Learning, Cryptography & Introduction to Statistics — *Stanford University*

- Power BI - Business Intelligence for Beginners to Advance — *Udemy*

- Introduction to Data Science in Python — *University of Michigan*