

# Guruprerana Shabadi

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## Education

- **École Polytechnique** Palaiseau, France  
*B.S., Mathematics and Computer Science (Cumulative GPA: 4.21/4.0)* Sep. 2019 - Present
  - Admitted into the program with honors
  - Relevant courses: Design and Analysis of Algorithms, Logic and Proofs, Constraint Logic Programming, Machine Learning, Formal Languages, Computer Architecture, Compilers, Functional Programming, Mathematical Modelling, Group Theory, Measure Theory, Topology and Differential Calculus, Numerical Linear Algebra
- **Sindhi High School** Bengaluru, India  
*High School Diploma (Aggregate: 95.6%)* Jun. 2017 - Apr. 2019
  - Subjects: Mathematics, Physics, Chemistry, and Biology

## Experience

- **INRIA** Paris, France  
*Bachelor Thesis Internship* Jan. 2022 —
  - Advisor: Prof. Caterina Urban (ANTIQUE Team)
  - Topic: Design of effective abstractions for neural network verification
- **Department of Computer Science, École Polytechnique (LIX)** Palaiseau, France  
*Research Intern* Jun. 2021 - Dec. 2021
  - Advisor: Prof. Sergio Mover (Cosynus Team)
  - Topic: Accounting for communication delays arising in cyber-physical systems
- **Fasfox** Paris, France  
*Software Developer Intern* Jun. 2020 - Aug. 2020
  - Worked on the development of an application called ‘Concrete Dispatch’ used by large scale construction sites. Involved in all aspects of development including frontend and backend.
  - Technologies used: Django, Vue.js, Android

## Awards

Excellence Scholarship from the École Polytechnique Foundation	2019-2022
DGA Scholarship from the French Directorate General of Armaments	2021-2022

## Projects

- **Weave**  
*Hobby Entrepreneurial Project* Oct. 2020 —
  - As the CTO, I lead the application development team at Weave

- We are a team of 4 student entrepreneurs building a socio-professional networking platform tailor-made to the needs of the artistic industry

- **FlapAI**

- *Machine Learning Project, Course: CSE204 at Ecole Polytechnique*

- Implemented neuroevolution and Q-Learning algorithms from scratch to learn how to play the game of Flappy Bird

- **Nuit de l'IA Hackathon**

- *Organized by Binet AI and X-UP Start-up Accelerator at Ecole Polytechnique*

*Sep. 2019*

- Member of the winning team at the hackathon
- Best implementation of a multilabel classification algorithm for supermarket products

## Skills

**Languages:** C/C++, Python, Coq, Haskell, JavaScript, Java, HTML-CSS, x86 Assembly

**Frameworks:** Django, Vue.js, Android, React, React Native, Pandas, Scikit-learn, Tensorflow, Qt

**Spoken languages:** English (native), French (advanced working proficiency), Kannada, Hindi

## Volunteer Experience

- **Developer Student Club of École Polytechnique**

- *Developer Student Club Lead*

*Sep. 2020 - Jun. 2021*

- As a part of the Google DSC Program, led a team in organizing events, workshops, and competitions about various platforms and technologies, including cloud and AI.

- **Student Body of École Polytechnique**

- *Chief Financial Officer*

*Jun. 2020 - Jun. 2021*

- I was incharge of accounting, and gathering of sponsorships and funds, in addition to organizing the social and cultural life on campus.