Guruprerana Shabadi

103, avenue Henri Becquerel

Palaiseau, 91120, France

guruprerana.github.io

guruprerana.shabadi@polytechnique.edu

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

- **Department of Computer Science, École Polytechnique (LIX)** Palaiseau, France
  Summer Research Intern *Jun. 2021 - Present*
  - Advisor: Prof. Sergio Mover
  - Working with the Cosynus team on 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

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

Projects

- **FlapAI**
  Machine Learning Project, CSE204
  - Implemented neuroevolution and Q-Learning algoritms 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

- **Other Projects**
  École Polytechnique
  - Built an online platform on Django for all the students to be able to track purchases and subscriptions made on campus.

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.