

Revathy VENUGOPAL



PROFILE

Innovative Python developer and open-source contributor with expertise in simulation, automation, and theme development. Main contributor to PyAnsys core team and maintainer for PyDyna. Skilled in building scalable tools, modern web interfaces, and automated processes for engineering workflows.

CONTACT DETAILS

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Lyon, France

PERSONAL INFORMATION

Citizenship: **Indian**
Languages: **English** (C1),
French (B1), **Hindi**, **Malayalam**

SKILLS

Programming

· Python · JavaScript · C
· HTML · CSS · Docker
· TensorFlow · PyTorch
· OpenCV · LaTeX

Soft Skills

· Problem-solving · Teamwork
· Communication · Adaptability
· Decision-making · Leadership
· Critical thinking · Creativity
· Emotional intelligence

Tools

· GitHub · Bitbucket
· Sphinx · CI/CD
· Jupyter Notebook

Languages

· English · French

EXPERIENCE

R&D Engineer, PYANSYS CORE TEAM *Ansys (Lyon)* **2022.05–pres.**

- Main contributor to PyAnsys core team: feature development, code review, release management, and automation tools
- Maintainer for PyDyna: simulation modules, automation, and community support
- Developed and maintained Ansys Sphinx themes (HTML, CSS, JS, Python)
- Built Python-based automation for theme deployment, CI/CD, and build systems
- Architected advanced search (Fuse.js, MeiliSearch) for documentation themes
- Created responsive, interactive frontend components for engineering UIs
- Supported open-source community: onboarding, documentation, and user support
- Led cross-functional collaboration with global engineering teams
- Applied best practices in software design, testing, and DevOps

Machine Learning & Robotics Intern *SITIA Robotique (Nantes).*
2021.09–2022.03

- Developed Python software for robot vision and obstacle avoidance (TensorFlow, OpenCV).
- Implemented real-time algorithms for autonomous navigation.

Graduate Engineer Trainee *BPCL Kochi Refinery (Kerala, India).*
2019.06–2019.08

◇ Electrical maintenance, troubleshooting, and repair of electrical equipment.

EDUCATION

MASTER OF SCIENCE IN EMBEDDED SYSTEMS. *ESIGELEC, Rouen.*
2020–2022

◇ Embedded systems, software development, machine learning, robotics, computer vision.

MASTERS DEGREE, AUTOMOTIVE EMBEDDED SYSTEM. *Manipal School of Information Sciences.* **2020–2021**

◇ Automotive embedded systems, software development, machine learning, robotics, computer vision, IOT, embedded C, Real-time operating systems.

BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING. *College of engineering, Munnar* **2016–2020**

◇ Electrical and electronics engineering, power systems, electrical machines, control systems, power electronics.

ADDITIONAL EDUCATION

USING PYTHON TO ACCESS WEB DATA. *Coursera.* **2021**
◇ Python, web data, web scraping, web services, XML, JSON.

INTRODUCTION TO PROGRAMMING USING PYTHON. *Coursera.* **2020**
◇ Python, programming, data structures, algorithms.

PYTHON DATA STRUCTURES. *Coursera.* **2020**
◇ Python, data structures, algorithms, programming.