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Gender: Female | **Date of Birth:** 2 October 2002 | **Nationality:** Indian

ABOUT ME

As a current Master's student at the University of Freiburg, I'm looking for a position that will allow me to produce high-quality work while encouraging ongoing learning and skill development. I am excited to contribute significantly to your prestigious university because I have a goal-oriented attitude, excellent communication skills, and a great command of computers.

EDUCATION

QUALIFICATION	TIMELINE	NAME OF THE INSTITUTE	UNIVERSITY/BOARD	SCORE/CGPA
Master of Science in Computer Science – Specialization in AI	Apr 2025 – Ongoing	Albert Ludwig University of Freiburg	–	–
Bachelor of Engineering in Artificial Intelligence and Machine Learning	Dec 2020 - Jun 2024	St. Joseph Engineering College, Mangalore, Karnataka, India	Visvesvaraya Technological University, Belagavi.	9.33 (CGPA)
Senior School Certificate Examination - Class 12	Jun 2018 - Mar 2020	Lourdes Central School, Mangalore, Karnataka, India	Central Board of Secondary Education, New Delhi, India	90.2%
Secondary School Examination - Class 10	Jul 2017 - Mar 2018	Lourdes Central School, Mangalore, Karnataka, India	Central Board of Secondary Education, New Delhi, India	91.4%

PROFESSIONAL EXPERIENCE

POSITION	TIMELINE	INDUSTRY	SKILLS LEARNT
Python Programming Intern	Nov 2024 – Jan 2025	Motion-Cut Technologies	<ul style="list-style-type: none">Developed Python applications including a quiz appDeveloped a word counter application.Gained hands-on experience in text processing, efficient data handling, and user input management.
Data Science Intern	Jul 2024 – Sep 2024	Evoastra Technologies Private Limited	<ul style="list-style-type: none">Data Scraping Mini Projects.Data Cleaning.Data Analysis using Tableau and Power BI.
Data Science Intern	Aug 2023 – Sep 2023	Zephyr Technologies Private Limited	<ul style="list-style-type: none">Gained the ability to clean and pre-process data.Gained knowledge on data visualization.Participated in weekly quizzes and a Hackathon.
Machine Learning Intern	Jun 2023 – Aug 2023	IBM	<ul style="list-style-type: none">Hands on Experience in deploying Machine Learning models.Worked on preprocessing data and visualizing it.Developed a Mental Health Monitoring Device.

ACADEMIC PROJECTS

Nurturhub: A Smart Maternal Health Monitoring

Objectives: Monitor physiological signals in pregnant women, detect early signs of postpartum depression, provide timely intervention and support, improve mental wellbeing during the postpartum period
Duration: 6 months
Tools: EDA Sensor, Accelerometer, BVP Sensor, Temperature Sensor, KNN Machine Learning algorithm, React Native, VS Code, JavaScript, ESP 32, Neural Networks
Link: <https://github.com/katepereira/Maternal-Health-Monitoring-Device>

Forest Fire Prediction System

Objectives: Predict the probability of forest fire outbreaks, aid in early detection and prevention efforts, integrate machine learning techniques with web deployment for fire management.
Duration: 3.5 months
Tools: Python, Random Forest Classifier, Flask, web deployment techniques, HTML, JavaScript, CSS
Link: <https://github.com/katepereira/Forest-Fire-Prediction>

Crime Management System

Objectives: Enhance law enforcement operations, streamline operations, and improve data accuracy, facilitate efficient communication and collaboration.
Duration: 2 months
Tools: RDBMS platform, PHP, HTML, CSS, MySQL
Link: <https://github.com/katepereira/Crime-Management-System>

SKILLS AND ABILITIES

Programming Languages: C,C++,Java, SQL, Python, HTML, CSS, Javascript, PHP.
Software Platforms: UI Path, Tensorflow, Keras, Pytorch, sklearn, Matlab, Android Studio, React Native, RDBMS, Google Colab, Django Rest FW, KYOLO Object Detection Algorithm.
Technical Skills: Machine Learning, Deep Learning, Data Handling and Analysis, Neural Networks in Python, Model Evaluation and Optimization, Soft Skills, Web Developer, Leadership Qualities, Microsoft Excel.

LANGUAGE SKILLS

	Level	Listening	Reading	Speaking	Writing
English	C1	8.5/9.00	7.5/9.00	8.0/9.00	6.5/9.00
German	A2	16.25/25	21.25/25	22/25	25/25

Mother Tongue: Konkani
Other Languages: Hindi, Kannada, Tulu.

SEMINARS AND WORKSHOPS

- Published a research paper titled ‘Nurturhub: A Smart Maternal Health Monitoring Device for Post-partum Depression’ at the IEEE conference.
- Karnataka Governmental Council for Science and Technology (KSCST) and the Indian Institute of Sciences(IISc) provided us with governmental funds to advance the development of our research for our Major Project "Nurturhub".
- Presented a Technical Seminar on Robotic Rehabilitation at St. Joseph Engineering College, in March 2024.
- Completed ‘Basics of Prompt Engineering Learn to communicate better with AI’ webinars with assignments and projects by Indo Universal Collaboration for Engineering Education (IUCEE) Foundation, Apr 2023.

ACHIEVEMENTS

- Received 8th rank at Visvesvaraya Technological University among 219 other affiliated universities in the state, in the 2024 graduating batch.
- Received the best outgoing student award and obtained the Highest achiever award for all 8 semesters of my bachelor’s degree.
- Active member of Terrorbull Robotics Club at St Joseph Engineering College.
- Active member of Google Student Developer Club at St Joseph Engineering College.
- Acted in two Konkani movies namely ‘Payann’ and ‘Osmitay’.