

# CURRICULUM VITAE

## **PRAKHAR RATHI**

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**Date of birth:** 30<sup>th</sup> November 1995

**Place of birth:** Muzaffarnagar, U.P, India

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**LinkedIn:** <https://www.linkedin.com/in/rathiprakhar/>



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### **Current Position:**

**Master Thesis Student | Heinz-Nixdorf-Institute, Paderborn**

2021/09 – 2022/02

Currently working on the Master Thesis titled, “*Automated Cell Header Generation for Machine Learning Jupyter Notebooks*”

Focus areas:

1. Performing static analysis of Python code
2. Prototyping a proof-of-concept framework for annotating cells with Machine Learning phases executed in the respective code cells as cell headers

**Wissenschaftliche Hilfskraft (HiWi) | Fraunhofer IEM, Paderborn**

2021/05 – till date

Responsibilities:

1. Developing a full-stack web application using Java Spring Boot
2. Generalized the deployment process for generating multiple repositories of the application, cutting down the process to 1 stage in CI/CD pipeline
3. Debugging and unit-testing along with the development

4. Containerizing the application and MySQL database using Docker

#### Technologies Used:

1. Java 11, Spring Boot, Maven
  2. SQL data query language
  3. Java Persistence API (JPA)
  4. Thymeleaf, HTML, CSS
  5. Shell scripts
  6. Python
  7. Junit 5
  8. Docker
  9. Git, GitLab CI/CD
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### **Work Experience**

#### **Project Engineer | Wipro Ltd., Bengaluru, India**

2018/07 – 2019/02

#### Responsibilities:

1. Implemented database manipulation and database definition queries
2. Assisted senior developers in engineering an Android Automotive app
3. Devised Java and Python solutions for various software development tasks
4. Worked in a team to gather requirements and enhance application functionality

#### Technologies and Tools:

1. Java, Spring Boot
  2. RESTful Web Services
  3. HTML, CSS
  4. Python
  5. Android Studio
  6. MySQL Database
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## **Education**

**M.Sc. Computer Science | University of Paderborn, Germany**

2019/10 – till date

**Bachelor's in Technology (B.Tech.) – Computer Science and Engineering |  
Dr. A.P.J. Abdul Kalam University, U.P., India**

2014/08 – 2018/06

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## **Skills**

1. Object Oriented Programming (OOPs)
  2. Java
  3. Python
  4. Spring Boot
  5. Hibernate (Java)
  6. REST APIs
  7. Machine Learning
  8. MySQL and NoSQL
  9. HTML and CSS
  10. ReactJS
  11. Maven
  12. Android Development
  13. Git
  14. Strong communication skills
  15. Goal-oriented
  16. Strategic analysis of tasks
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## **Projects**

**Virtual and Augmented Reality Assisted Robot Programming (VARobot)**

SICP Paderborn, Germany | University of Paderborn, Germany

Responsibilities:

1. Programmed software of an AR app in Android for Robot programming
2. Conceptualized and deployed single-handedly a unique approach of programming a Lego NXT Mindstorm robot by programming an Android

plugin for Unity using Java for LeJOS and Android Studio as the backend with 90% accuracy

3. Conducted usability study and visualized the data
4. Contributed to the development of the project's website: <https://varobot-pg.github.io/>

Technologies and Tools:

1. Unity, C#
2. Java, LeJOS
3. Android Studio
4. Python – Matplotlib and Seaborn for Data Visualization
5. HTML, CSS

### **Student Service – Full Stack Web Application**

I performed the following tasks on this self-project:

1. Developed a full stack web application with responsive UI
2. Integrated CRUD operations on MySQL Database

Technologies and Tools:

1. ReactJs
  2. Java Spring Boot REST API
  3. Java Persistence API (JPA)
  4. MySQL database
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### **Seminars**

**Learning to Sort – Machine Learning.** University of Paderborn, Germany

**ERNIE – A Continual Pre-training Framework for Enhanced Language Representation (Recent Advances in NLP).** DICE Paderborn | University of Paderborn

**Introduction to the Robot Operating System – Main Concepts and Application Scenarios.** SICP Paderborn | University of Paderborn

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### **Certifications**

**Machine Learning A-Z™: Hands-On Python and R in Data Science.** Udemey

**Industrial Training in Java – J2EE.** APTRON Solutions Private Limited,  
Sector 15, Noida, U.P, India

**Java – J2EE Course.** Ducat Noida, U.P, India

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**Languages and Interests**

English : Professional level IELTS ‘C1’ score 7.5

Hindi : Mother tongue

German : Level ‘B1’

My hobbies include playing guitar, walking in nature, writing Hindi poetry, playing games such as table-tennis, 8-ball Pool and sports such as cricket.

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Paderborn, 2021/11

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