

# Suhas Prakash Devmane

PhD Researcher | IT  
Professional



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📍 Cardiff, UK

🔗 <https://suhasdevmaneportfolio-419d790d41b8.herokuapp.com/>

🚩 Indian

## 📄 PROFILE

Innovative research engineer and developer with 4+ years of experience in IoT, front-end development, conversational AI, and ontology engineering. Adept at creating intelligent digital interfaces, interactive dashboards, and scalable web solutions using modern tech stacks. Currently a PhD Research Fellow at Cardiff University, specializing in smart building monitoring systems, full-stack development, and technical project leadership. With over 4 years of research experience and expertise in **smart buildings**, **conversational AI**, **ontology engineering**, **IoT systems**, and **data engineering pipelines**, I specialize in creating intelligent systems that bridge physical and digital environments through advanced sensor networks, AI-powered interfaces, and scalable data architectures. My flagship work centers on the **Abacws OntoSage project**. I'm passionate about developing **data engineering pipelines** (ThingsBoard to Cassandra, real-time IoT data ingestion), **machine learning models** for predictive analytics, **ontology-based conversational agents** (OntoBot, BrickBot), **natural language to SPARQL** query systems, and full-stack applications for **IoT data visualization**.

## 🎓 EDUCATION

### PhD in Computer Science and Informatics (pursuing)

Computer Science, Cardiff University, Cardiff

10/2021 – Present | Cardiff

- PhD Research Fellow at Cardiff University specializing in smart building monitoring systems and full-stack development
- Experienced in leading technical projects with a focus on innovation and applied research
- Responsible for developing and implementing applications enabling natural language interactions
- Skilled in multiple programming languages and diverse technology stacks
- Student demonstrator for Master's and Bachelor's programs, assisting in coding and laboratory sessions
- Passionate about guiding students to gain hands-on experience and practical problem-solving skills

### MSc in Advanced Mechanical Engineering

Cardiff University, Cardiff

10/2017 – 01/2019 | Cardiff

### Bachelors of Engineering

Shivaji University, Maharashtra, India

2012 – 2016 | India

## 🧠 SKILLS

- HTML5, CSS3, JavaScript (React, Angular, Bootstrap)
- Python, TypeScript, Node.js, Express.js, Flask
- IoT, Sensor Networks, Brick Schema, MQTT
- Git, Docker, Cloud Hosting
- Good communicate skills and time management, adaptive nature to new skill sets

## 📜 CERTIFICATES

- Data Scientist Masters
- Databases and SQL
- IBM Data Science Masters
- Data Analytics
- +20 Certifications listed on Portfolio

## 📁 PROJECTS

Open-Source Chat UI for surveys



## PROFESSIONAL EXPERIENCE

### IT Support Advisor

Cardiff University, Cardiff  
06/2024 – 12/2024 | Cardiff

### Quality Engineer

Starion India  
2015 – 2017 | India



## LANGUAGES

English

Hindi

Marathi



## INTERESTS

- Reading
- Coding



## PUBLICATIONS

### Talking Buildings: Interactive Human-Building Smart-Bot for Smart Buildings

Springer  
29/11/2024

**Human-building interaction towards a  
sustainable built environment: A review**  
ORCCA

OntoBot for OntoSage to talk to Smart buildings

3D Api for smart Buildings

Auto node restarts for tapo plugs

ThingsBoard → Cassandra Pipeline

Rasa Frontend UI

nl2sparql - NL Query Engine

\* Explore more projects on Portfolio