

# Sambit Praharaj

PHD RESEARCHER AT WELTEN INSTITUTE IN TECHNOLOGY ENHANCED LEARNING AND INNOVATIONS GROUP

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“The greatest danger for most of us is not that our aim is too high and we miss it but that it is too low and we reach it.” — Michelangelo

## Education

### Open Universiteit

Heerlen, Netherlands

PhD at Welten Institute in TELI group on designing real-time feedback to support co-located collaboration

September 2017 - August 2021

- Working on Multimodal Learning Analytics in Co-located Collaboration using sensors to detect different indicators of co-located collaboration during a co-located collaboration task and enable real-time feedback to facilitate collaboration

### Delft University of Technology

Delft, Netherlands

Msc. in Computer Science, 7.37/10.00 (121 ECTS)

September 2015 - August 2017

- Collaborated with Lambda lab in WIS research group at TU Delft and researchers from Lugano, Switzerland for my thesis
- Set up experiment and analyzed the data gathered from the event logs of the students in each lecture in a Bachelor class from different perspectives to determine the attention level of students which can help in improving the current state-of-the-art classroom teaching

### VSSUT Burla

Odisha, India

Bachelor of Technology in Information Technology, 8.74/10.00

2011-2015

- Major Project: Energy Efficient Routing in Wireless Sensor Networks

## Experience

### Organized a workshop with a team from NIE (NTU) Singapore and USA

Lyon, France

Workshop on Multimodal Learning Analytics in Knowledge Building

June 2019

### Organized 2 workshops during Joint TEL Summer School

Bari, Italy

One workshop related to my PhD and other was related to balancing PhD life with supervisor

June 2019

### Creator of YouTube channel: SambitPhD

YouTube

Vlog my weekly PhD experiences and studying, living experiences in Netherlands

October 2018 - Present

- Share my weekly PhD experiences, conference experiences, study and living experience in Netherlands

### Mentor at VSSUT, Burla

Odisha, India

Mentor in PSPF (Problem Solving and Programming Forum)

July 2014 - June 2015

- Taught and guided our university juniors to program in Java and R and solve algorithmic problems

### Researcher at CNERG (Complex Networking Group), IIT Kharagpur

Kharagpur, India

Undergraduate Research Intern

May 2014 - June 2014

- Performed research on the project titled as: “Measuring Similarity in Undirected, Unweighted Graphs”
- Simplified complex social and telecom networks which evolve with time by designing a combined similarity measure

### Trainee at NIIT Limited

Bhilai, Chattisgarh, India

Certification for Java SE6, ASP.Net

June 2013 - July 2013

- Appeared for an exam and completed a project

### Internship at C&IT Dept., Bhilai Steel Plant, SAIL (Steel Authority of India Limited)

Bhilai, Chhattisgarh, India

Summer Internship

May 2013 - June 2013

- Designed a short report just like a financial sheet which shows the Rail Steel Mill production in different financial years
- Used TOAD (Tool for Oracle Application Developers) to manage the SQL queries

### Trainee at NIIT Limited

Bhilai, Chhattisgarh, India

Certification for SQL, PL/SQL from ORACLE

May 2012 - June 2012

- Appeared for a certification exam

## Projects

### Furnito - Furniture Search Engine & Recommendation System Project

TU Delft

Programmer and designer

March 2016

- Designed a furniture search engine (with a team of 4 other members) which is basically a simple recommendation system based on user activity and crowd sourcing

## Energy Efficient Routing in Wireless Sensor Networks (WSN)

Odisha, India

Major Project in final year of Bachelor's at VSSUT Burla

August 2014 - May 2015

- Made a comparative study of different energy efficient routing algorithms in WSN
- Studied the existing algorithms and optimized it for better efficiency in the context of using the sensors for power supply in a city

## M3D Waste – Optimizing healthcare waste incineration

TU Delft

Prepared and presented a innovative startup idea

December 2015

- Worked with 5 other members where my role was to contact the potential NGOs and other organisations
- The basic idea of the startup was to be able to create a 3D printed incinerator for incinerating bio-medical wastes
- Our team won the first prize on the final presentation day

## Publications

### EC-TEL 2019 Springer LNCS

Delft, Netherlands

S. Praharaj, M. Scheffel, H. Drachslar and M. Specht. *Group Coach for Co-located Collaboration*

September 2019

- Demo for the developed tool to give real-time feedback during co-located collaboration

### EC-TEL 2018 Springer LNCS (Track: Innovative Learning Infrastructure)

Leeds, UK

S. Praharaj, M. Scheffel, H. Drachslar and M. Specht. *Multimodal Analytics for Real-time Feedback in Co-located Collaboration*

September 2018

- State-of-the-art-survey and a pilot study to give real-time feedback during PhD meetings

### UMAP 2017 ACM (Track: Technology Enhanced Adaptive Learning)

Bratislava, Slovakia

V. Triglianios, S. Praharaj, C. Pautasso, A. Bozzon and C. Hauff. *Measuring Student Behaviour Dynamics in a Large Interactive Classroom Setting*

July 2017

- Analyzed the data captured during all the 15 lectures for the paper which is also a part of my master thesis

### DESOSA (Delft Students on Software Architecture)

TU Delft

Chapter on Ember: A framework for creating ambitious web applications

May 2016

- Worked to communicate with the developers on Github, Slack and refactored part of the code on Github, contributed for the chapter

## Skills

### Computer

Programming, Analytics, Database and Design

- Programming: Java, C++, C#, Python, nodejs | Analytics: R, Tableau
- Database: SQL, MongoDB | Design: HTML, CSS, JavaScript

### Language & Writing

Fluent in English, Oriya

- English (Full professional proficiency) | Oriya (Native or bilingual proficiency)
- Writing: Most viewed writer in Quora: TU Delft category since January 2017

## Extracurricular Activity

### GAM (Global Alumni Meet)

Odisha, India

Organizing member at VSSUT

January 2013

- Established contact with alumni and invited them for the meet with the help of emails and social media

### ECO-Club, Rourkela

Odisha, India

Participant of the environmental awareness drive

June 2008

- Promoted environmental awareness among the locals on the occasion of world environment day by displaying meaningful posters

### AIDS awareness workshop, Civic Centre, Rourkela

Odisha, India

Participating member for raising AIDS awareness

April 2006

- Raised awareness about AIDS as a participant of the workshop

## Hobbies

### Learn about deep learning, painting & cooking

Learn the basics, painting oil color, avid cook

- CNN (Convolutional Neural Networks), examples of deep learning on images
- Completed junior diploma in fine arts, fond of oil pastel and oil painting
- Watching cooking videos and experimenting with new dishes