

Dr. Rustam Ali Ahmed

Ph.D. in CSE

Assistant Professor (SG)
IT Department
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Education

- 2010–2018 **Ph.D. in Computer Science & Engineering**, Tezpur University, CGPA in Course Work: 9.67/10, Division: P.
Thesis Title: Prediction of Future Appearances of Child's Face Images
- 2003–2005 **M.Tech. in Information Technology**, Tezpur University, Division: I.
University: Tezpur University, Napaam, Sonitpur, Assam-784028, India
- 2001–2003 **M.Sc. in Mathematical Sciences**, Tezpur University, Division: I.
University: Tezpur University, Napaam, Sonitpur, Assam-784028, India
- 1999–2001 **PGDCA in Computer Science**, Gauhati University, Division: P.
University: Gauhati University, Guwahati, Assam-781014, India

PhD Thesis

- Title *Prediction of Future Appearances of Child's Face Images*
- Supervisor Dr. Bhogeswar Borah, Professor, Department of CSE, Tezpur University, Assam
- Description This thesis is based on the implementation of Prediction of Future Appearances of a Child's Face, which involves leveraging advanced computational algorithms and facial recognition technology to anticipate how a child's facial features may change as they grow older. By analyzing key facial markers and using historical data, this process can estimate potential alterations in facial structure, such as bone growth and soft tissue changes.

Objective

Highly accomplished and dedicated Computer Science professional seeking a suitable position as an Associate Professor or a Software Professional to contribute my expertise in teaching, research, and mentorship. Committed to fostering academic excellence, promoting innovative thinking, and advancing the field of computer science.

Work Experience

- 2005–2010 **Lecturer**, Department of Information Technology, Sikkim Manipal Institute of Technology, Majitar, Sikkim- 737136.
- 2010–2017 **Assistant Professor-II**, Department of IT, SMIT, Majitar, Sikkim.

- 2017–2021 **Assistant Professor-I**, *Department of IT, SMIT, Majitar, Sikkim.*
 2021–present **Assistant Professor (Senior Grade)**, *Department of IT, SMIT, Majitar, Sikkim.*

Research Projects

- 2023–present **Short term Forecast of (Now casting) of Orographic Rain for Landslide Prediction Analyzing DWR Data over Hilly Region (Agartala and Mohanbari) and Development of Associated Warning System.**, *Funding Agency: Ministry of Earth Sciences, Govt. of India, Role: Co-PI, Sikkim Manipal Institute of Technology, Majitar, Sikkim- 737136.*
Sanctioned Amount: INR 42,70,079/-, PI: Dr. Swastika Chakraborty, Narula Institute of Technology
- 2020–2023 **Android/IOS APP (SMIT Campus)**, *Funding Agency: TMA Pai Research Endowment Grant 20-21, Sanctioned Amount: INR 4,86,000/-*, PI: Dr. Rustam Ali Ahmed.

Technical Work Experience

- 2020-2022 **Developed an Online Proctor Based Exam System**, *A complete solution for online proctored exam system, which is a fully self designed & developed system; by which all degree exams of Sikkim Manipal Institute of Technology and Sikkim Manipal University were conducted during COVID-19 pandemic period..*
Technology used: AWS Load Balancer with Auto Scaling Group, NGINX Web Server, PHP and MySQL.
- 2019-2022 **Developed an Online Admission System**, *A complete Online Admission system with entrance exam test, counseling and payment for admission process in Sikkim Manipal Institute of Technology..*
Technology used: AWS Load Balancer with Auto Scaling Group, NGINX Web Server, PHP CodeIgniter 4 Framework and MySQL
- 2022-present **Ongoing Project- Student Information System**, *a complete information system for student, parent, faculty & guest for Sikkim Manipal Institute of Technology..*
Technology used: Apache Web Server, PHP CodeIgniter 4 Framework and MySQL
- 2019-present **Developed a Centralized Student Feedback System**, *a centralized feedback system for student, parent, faculty & guest for Sikkim Manipal Institute of Technology..*
Technology used: Apache Web Server, PHP CodeIgniter 4 Framework and MySQL
- 2019-present **Developed an Exam Question wise Marks & Result Processing System**, *an evaluation recording system for Sikkim Manipal Institute of Technology..*
Technology used: Apache Web Server, PHP CodeIgniter 4 Framework and MySQL
- 2010-present **Developed some other Software Systems & Conference Websites**, *e.g. many conference websites as well as WordPress sites..*
Technology used: WordPress, Bootstrap
- 2019–2021 **SMIT App**, *an Android App for SMIT Student Information System of SMIT.*
Technology used: Android Studio, Java, PHP API

Publications

Journals

- Ahmed, Rustam A. et al. "HIMIC : A Hierarchical Mixed Type Data Clustering Algorithm." (2005).
- Ahmed, Rustam Ali and Bhogeswar Borah. "Triangle Wise Mapping Technique to Transform one Face Image into Another Face Image." International Journal of Computer Applications 87 (2014): 1-8.
- Ahmed, Rustam Ali and Bhogeswar Borah. "An Iterative Search based Technique to Find or Predict Older Face Images of a Child." International Journal of Computer Applications 151 (2016): 1-6.

Awards

Excellence Award 2020	Certificate of Excellence for the exemplary contribution to the Institute during Covid-19 Pandemic from Sikkim Manipal Institute of Technology.
Best Employee Award 2020	Dr. T.M.A. Pai Overall Excellence Award for meritorious, distinguished contribution and demonstrating values of the University 2020 from Sikkim Manipal University. Best Employee award among the the institutes of all Sikkim Manipal Group of Institutions.
Finalist– of National Awards 2021	Appeared up to the final selection committee of the National Awards for e-Governance (NAeG) 2020-21 in Outstanding Research on Citizen Centric Services by Academic/Research Institutions Projects and Software Developed.

Additional Position of Responsibility

2021-2022	Head IT Council , <i>Head of SMIT IT Section for manage and maintaining of the IT infrastructure of entire Sikkim Manipal Institute of Technology.</i>
2020–2022	Chairman of Software Development Team , <i>Chairman of Software Development Team for development of SMIT app and Remote Proctored Examination Software.</i>
2020–present	Member of Admission Team , <i>Technical supporting member for Admission Team, SMIT.</i>
2005–present	Departmental Coordinator , <i>Lab In-charge, Major Project Coordinator, Departmental Budget Coordinator.</i>

Skills and Activities

Cloud Services	AWS: EC2, RDS, Route 53, EFS, AWS Load Balancer, Auto Scaling Group; Google Cloud Platform
Programming Language	C, C++, Java, Python, FORTRAN, PHP, C#, MATLAB
Web Technology	PHP, MySQL, ASP, Web Hosting, Cloud Web Server
Operating System	Windows, Linux, Mac

Server Linux Server Administration

Teaching Subjects

2005–2009 C Programming
2006–2008 Object Oriented Programming with Java
2006–2015 Data Structure
2018–present Object Oriented Programming with C++
2019–present Finite Automata
2018–present Numerical Techniques

Languages

Assamese Native Speaker
English Bachelor, Master, and PhD in English, Master and PhD dissertations written in English, publications and presentations are in English.
Hindi Native Speaker
Bengali Native Speaker

Address & Personal Information

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Referees

Dr. Hiren Kumar Deva Sarma

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Dr. Bhogeswar Borah

Professor, Department of CSE
Tezpur University, Napaam
✉ bgb@tezu.ernet.in

Dr. Udayan Baruah

HoD & Associate Professor, Department of IT
Sikkim Manipal Institute of Technology
✉ udayan.b@smit.smu.edu.in

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A handwritten signature in blue ink, consisting of a stylized 'R' followed by 'ustam Ali Ahmed'.

Dr. Rustam Ali Ahmed

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