Personal Information	
Application No. APL20240001	Application Status Pending
Full Name Rajesh Kumar	Email rajeshk@goa.bits-pilani.ac.in
Phone Number 8690102980	Date of Birth 1985-01-01
Experience Seasoned academician in BITS Pilani with modelling of critical infrastructures	Core Competencies IoT/ M2M, Infrastructure, Data Analytics/ AI-ML Expert, Blank Space to fill, Edge computing devices, IoT, Sensors
Other Core Competencies	
Organization Name	Website URL of the organisation https://evetanseva.nic.in/
Alternate Email	Potential Interest Areas ["Virtual/Digital Twin Layer"]
Office Address noida	Organisation HQ address Delhhi

Additional Information

Previous Experience in Related Projects

I have been working as PI in two externally sponsored projects: 1: DSCI sponsored project on cyber-resilience using digital twins 2. IHUB-IITK sponsored project on modelling and analysis of critical interconnected infrastructures

Achievements or Recognitions

Assistant Professor Research Interests: Formal Verification, Cyber-Physical systems. Modelling complex infrastructures Assistant Professor, Department of Computer Science & Information Systems Birla Institute of Technology & Science, K.K Birla Goa Campus Goa, INDIA (Please note a change in location and email address, rajesh.k@pilani.bits-pilani.ac.in do not work anymore) rajeshk@goa.bits-pilani.ac.in 0832-2580821 https://www.linkedin.com/in/rajesh-kumar-75b76b14/ OVERVIEW TEACHING RESEARCH PROJECTS PUBLICATIONS ACHIEVEMENTS FACULTY NEWS INVITED TALKS OPPORTUNITIES I obtained my PhD under the guidance of Prof. dr. Marielle Stoelinga and Prof. dr. Arend Rensink at University of Twente, Netherlands in 2019. The title of my dissertation was "Truth or Dare: Quantitative security risk analysis via attack trees". My PhD dissertation is available here. My PhD viva voice examination can be viewed at Vimeo from here. I obtained my master in communication networks from Scuola Superiore Sant Anna, Pisa, Italy and Bachelor in electrical engineering from College of Technology and Engineering, Udaipur. I have more than 5 years of experience working in diverse settings, ranging from Fortune 500 companies (Schneider electric as Engineer-product application, Telecom Italia- Intern, Tata motors- Intern), Government companies (New India Assurance Company Limited - Administrative officer) to educational institutions (Sir Padampat Singhania University founded by J.K group). Prior to joining BITS in 2019 at Pilani campus, I was a software engineer in industrial cybersecurity divison at Croon wolter and Dros, Apeldoorn, Netherlands. I am a recipient of multiple scholarships (worth more than 2 crores) including prestigious Erasmus Mundus doctorate fellowship and

Erasmus Mundus Master fellowship. Additionally, my master was funded by Indo-Italian chamber of commerce (https://postgradinitaly.esteri.it/postgradinitaly/en/). In past I have also received travel grants from DAAD, European space agency, NATO (Germany) and FBK, Trento. My PhD was funded by European Union FP7 Trespass project. I am a winner of several accolades, prizes and distinctions from multiple government, universities and state-sponsored agencies.

Details of Submission	
Title a data driven, digital twin enabled smart prognostic platform for cyber-risk resilience, situational awareness and crisis management for industrial systems	Category Use Resource

Strategic Vision

Objectives

Output of the proposal is a software tool that can be be invoked in two modes -- online or offline. When invoked offline it provides informed decisions on hazard progression, cost benefit analysis of countermeasures, design alternatives and scenario analysis. When invoked online, it guides practitioner on his optimal actions ensuring operational continuity, via self Output of the proposal is a software tool that can be be invoked in two modes -- online or offline. When invoked offline it provides informed decisions on hazard progression, cost benefit analysis of countermeasures, design alternatives and scenario analysis. When invoked online, it guides practitioner on his optimal actions ensuring operational continuity, via self configuration, graceful degradation options and crisis aversion

Alignment with Project Goals

Contribution to Project Goals

e contribute to the ongoing call by developing predictive analytics techniques using both model and data driven approach

Technological Resources

Human Resources Commitment

Other Information

Certification

I declare that all the information given by me in this application and documents attached hereto are true to the best of my knowledge and that I have not willfully suppressed any material fact. I accept that if any of the information given by me in this application is in any way false or incorrect, my application may be rejected, any offer of the grant may be withdrawn or my candidature may be rejected at any time.