SURJA SANYAL

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1 https://surja-sanyal.github.io

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OBJECTIVE

To enhance and broaden my knowledge and contribute with the same to the scientific community and the society.

To help nourish upcoming scientific brains and direct them towards better utilization of their own capabilities.

EMPLOYMENT HISTORY

2011 – 2019

Bio-Statistical Programmer, Data Modeler, and Data Analyst. Tata Consultancy Services (TCS), Delhi-NCR, India.

I have worked for a Danish Pharmaceutical Client* in the Lifesciences domain as a SAS Biostatistical programmer doing data analysis and interpretation to establish the safety and efficacy of upcoming drugs undergoing clinical trials in phases 1, 2, and 3.

I have also worked for an American Insurance Client* in the Healthcare industry for health related data modeling and trend prediction of US citizens.

EDUCATION

2021 - · · · Ph.D. - Computer Science and Engineering.

Indian Institute of Technology Guwahati, Guwahati, Assam, India.

Coursework grade: 8.75 / 10.00

Research area: Designing Machine Learning based Security Scheme for Inside and Outside Threat Detection in Industrial IoT Networks.

2019 - 2021

M.Tech. - Computer Science and Engineering.

National Institute of Technology Durgapur, Durgapur, West Bengal, India.

Final grade: 9.28 / 10.00

Thesis title: A Game Theoretic Framework for Surplus Food Distribution in Smart Cities and Beyond.

2006 – 2010

■ B.E. - Computer Science and Engineering.

University Institute of Technology, The University of Burdwan, Burdwan, West Bengal, India.

Final grade: 79.9 %

2004 - 2006

■ CBSE AISSCE (Class XII) - Physics, Chemistry, Mathematics, Biology, English. Kendriya Vidyalaya Number 1, Saltlake, Kolkata, West Bengal, India.

Final grade: 79.6 %

· · · - 2004

CBSE AISSE (Class X).

Kendriya Vidyalaya Number 1, Saltlake, Kolkata, West Bengal, India.

Final grade: 82.8 %

^{*} Names of the organizations have been omitted due to contractual obligations.

RESEARCH PUBLICATIONS

JOURNAL ARTICLES

- Sanyal, S., Mukhopadhyay, S., & Xhafa, F. (n.d.). Enhanced incentive schemes for volunteers to distribute surplus food in smart cities. *Available at SSRN 4179125*.
- Sanyal, S., Kumar Singh, V., Xhafa, F., Sanyal, B., & Mukhopadhyay, S. (2021). A game theoretic framework for surplus food distribution in smart cities and beyond. *Applied Sciences*, 11(11), 5058.

CONFERENCE PROCEEDINGS

Sanyal, S., Mukhopadhyay, S., Xhafa, F., Singh, V. K., & Sanyal, B. (2022). An incentive framework for surplus food distribution in the context of smart cities. In *International conference on network-based information systems* (pp. 35–47). Springer.

ACADEMIC INTERESTS

Internet of Things Game Theory Smart devices

Neural Networks Artificial Intelligence Machine Learning

NON-ACADEMIC INTERESTS

Science and Technology Martial Arts Swimming

 ■ Social activities
 ■ Football
 ■ Cricket

 ■ Lawn Tennis
 ■ Table Tennis
 ■ Running

SKILLS

Languages Strong reading, writing and speaking competencies for English, Hindi, Bengali.

Coding Python 3.x, Matlab, Base and Advanced SAS, Linux, UNIX, VBA, SQL, LTFX.

Tools Jupyter, Spyder, IDLE, Matlab, SAS University Edition, SAS Life Science Analytics Framework, Overleaf, TeX Studio, MySQL, MS Visual Basic, MS Excel, MS Word, Putty, Aginity Workbench, Data Transformer, LotusNotes.

MISCELLANEOUS EXPERIENCE

AWARDS AND ACHIEVEMENTS

Participation Award: Several competitive and charitable running events.

Service and Commitment Award: Recognizing my persistent contributions to the organization.

Merit Award: Numerous On the Spot awards for outstanding individual contributions.

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Merit Award: Numerous On the Spot awards for outstanding individual contributions.

Merit Award: Numerous CLP Faculty awards for distinguished contribution towards knowledge building of associates.

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MISCELLANEOUS EXPERIENCE (continued)

- Service and Commitment Award: Recognizing my persistent contributions to the organization.
- Merit Award: Numerous CLP Faculty awards for distinguished contribution towards knowledge building of associates.
- 2011 Merit Award: Best Team of the Year in TCS Delhi-NCR region.
- 2006 Merit Award: Multiple Maths and Science Olympiads during my schooling.

CERTIFICATIONS AND TRAINING

- Active participation in lecture: On AI-Driven Networks for Earth and Space conducted by Indian Institute of Technology Guwahati, India in collaboration with the University of Illinois at Urbana Champaign (UIUC), USA.
 - Certified participation in three day Workshop: On Scaling Blockchains: From Bitcoin to the Lightening Network conducted by the Indian Institute of Technology Guwahati, India in collaboration with the University of Catania, Italy.
 - Certified participation in ISEA Virtual Presentation Conclave (IVPC-2022): On Modeling Attacks on Physically Unclonable Functions (PUFs) and Open Trustless Blockchains: Security Tradeoffs conducted by the Indian Institute of Technology Guwahati, India in collaboration with the Ministry of Electronics and Information Technology (MeitY), Government of India.
 - Active participation in webinar: On Healthcare IoT conducted by the Indian Institute of Technology Guwahati, India in collaboration with the IEEE Communication Society, Technical Committee on eHealth: Special Interest Group on 'IoT for eHealth' and Technical Committee Green Computing and Communications: Special Interest Group on 'Pandemics'.
- Certified participation in 4.0 Tech Online Bootcamp: On AI and ML, Cyber Security, IoT, Data Science, Augmented Reality (AR) & Virtual Reality (VR), Blockchain, Full Stack conducted by the Indian Institute of Technology Guwahati, India in collaboration with NxtWave, CCBP 4.0 Certification Programs.
 - Certified participation in webinar: On Research Opportunities in Wind Technology conducted by the Indian Institute of Technology Guwahati, India in collaboration with National Institute of Wind Energy (NIWE), Chennai, India. with the support of the Ministry of New and Renewable Energy (MNRE), Government of India.
- Certified Shito-Ryu style Karate Practitioner: Black Belt First Dan awarded by the Traditional Shito-Ryu Karate Do Association (India), TSKA, recognized by the World Karate Federation (WKF).
- 2006 **Certified Swimmer:** Awarded by the *National Swimming Club, Kolkata, India.*

ABOUT ME

Team player with leadership qualities

Very active and adapt to new settings

Learn fast, both actively and passively

Can always get tasks done

Enthusiastic about interesting work

Science and technology enthusiast

Get quality productive very early

New undone challenges interest me

Very punctual and adhere to timelines

Knack to outperform expectations

REFERENCES

Dr. Sukumar Nandi

Senior Professor,

Department of Computer Science and Engineering, Indian Institute of Technology Guwahati,

Guwahati, Assam, India.

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Dr. Aryabartta Sahu

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Dr. Shibakali Gupta

Assistant Professor & In-Charge of Examinations, Department of Computer Science and Engineering, University Institute of Technology,

The University of Burdwan,

Burdwan, West Bengal, India.

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