

SURJA SANYAL

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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 utilisation 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.

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

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/or 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 %

RESEARCH PUBLICATIONS

JOURNAL ARTICLES

- 1 Sanyal, S., Mukhopadhyay, S., & Xhafa, F. (n.d.). Enhanced incentive schemes for volunteers to distribute surplus food in smart cities. *Available at SSRN 4179125*.
- 2 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

- 1 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, Base and Advanced SAS, Linux, UNIX, VBA, SQL, \LaTeX . |
| Tools | Jupyter, Spyder, IDLE, SAS University Edition, sas Life Science Analytics Framework, Overleaf, TeX Studio, MySQL, MS Excel, MS Word, Putty, Aginity Workbench, Data Transformer, MS Visual Basic, LotusNotes. |

MISCELLANEOUS EXPERIENCE

AWARDS AND ACHIEVEMENTS

- | | |
|------|--|
| 2019 | Participation Award: Several competitive and charitable running events. |
| | Service and Commitment Award: Recognizing my persistent contributions to the organization. |
| 2017 | Merit Award: Numerous On the Spot awards for outstanding individual contributions. |
| 2016 | Service and Commitment Award: Recognizing my persistent contributions to the organization. |
| | Merit Award: Numerous On the Spot awards for outstanding individual contributions. |
| 2015 | 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. |
| 2014 | Service and Commitment Award: Recognizing my persistent contributions to the organization. |

MISCELLANEOUS EXPERIENCE (continued)

- **Merit Award:** Numerous CLP Faculty awards for distinguished contribution towards knowledge building of associates.
- 2013 ■ **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.

CERTIFICATION

- 2014 ■ **Certified Shito-Ryu style Karate Practitioner:** Black Belt First Dan awarded by Traditional Shito-Ryu Karate Do Association (India), TSKA, recognised by World Karate Federation (WKF).
- 2006 ■ **Certified Swimmer:** Awarded by 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. Manas Khatua

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Dr. Shibakali Gupta

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