# SATYAM MOHLA

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## EDUCATION

**INDIAN INSTITUTE OF TECHNOLOGY (IIT) BOMBAY, INDIA**                    **GPA 9.27/10 · 3 AP Grades**

*Bachelor of Technology & Master of Technology in Electrical Engineering*                    *2015-2020*

- Deptt. Valedictory Award; IIT Merit Means Scholarship (4 years); Minor in IEOR
- Honda YES Award, Japan (32 awardees, 6 nations, $3000); Temasek TfLEaRN Scholar, Singapore (38 scholars, 12 nations, $6500)
- Relevant Coursework: Investments, AI Policy, Financial Econ, Prob & Random Process, ODE, System Modelling, Deep Learning, Data Analytics, Statistical Learning, Machine Learning, Signals Processing, Computer Vision, Economic Frontiers in EE, Linear Algebra,
- Teaching Assistant: Machine Learning, Differential Eqn, 2xQuantum Mech., MW Circuits, EM Interference                    [6 Semesters]
- Summer Intern: Developed non-invasive emotion sensing algorithms for playstation consoles at Advanced Tech Div., Sony R&D, Tokyo

**NTU & NANYANG BUSINESS SCHOOL(NBS)SINGAPORE - Exchange Semester**                    *Aug-Dec 2018*

- Coursework in Finance & AI; Volunteering at National Paralympics & IMH Hospital (Weekly, 5 Months); Editor-in-Chief, OGEM

## EXPERIENCE

**HONDA R&D X, HONDA INNOVATION LAB AKASAKA, Tokyo, JAPAN**                    *2020-Present*

*Associate—Value Creation, Digital Transformation Supervisory Unit*

- Improved customer segmentation for mobility service demand assessment in Japan by developing a ML algorithm fusing multimodal data like telematics, demographic, transportation etc.; Identified 18X additional stratified customers amounting to $10Mn revenue potential.
- Developed QC & feedback classification system; Reduced analysis time by 60%; Presented proposal to extend support to 12 more divisions.
- Assisted Biz Dev., CPS Unit in due diligence of start-ups to align with Honda 2030 DX strategy, leading to 3 new partnerships in SEA.
- Proposed NLP system to Biz Dev., CPS to help deal sourcing by analyzing patents' data & foster scouting of deep tech start-ups in APAC.
- Moderator & organising team for Big Data, Honda Technical Forum 2021; Engaged with CX/DX teams in US, UK & Europe; Sourced & actualised new cross regional business opportunity for DTSU & UK for a digital consent management service.

**INDIAN INSTITUTE OF TECHNOLOGY (IIT) BOMBAY, INDIA**

*Graduate Researcher— Prof. Anupam Guha, Centre For Policy Studies*                    *2020-2021*

- Published scholarship analysing societal impact of AI & digital transformation, using socio-economic lenses, besides algorithmic analysis
- Microsoft AI4Earth award for **another IEEE paper**, an AI model to segment burn scars using badly labelled Amazon satellite images.

*Graduate Researcher, Master's Thesis— Prof. Biplab Banerjee, Centre for Machine Intelligence & Data Science*     *2019-2021*

- Proposed novel attention multimodal fusion algorithms like FusAtNet, CogCNN, MASQNet for autonomous driving, remote sensing etc.
- State-of-the-art results in **4 publications in CVPR, ICLR, ICASSP** etc.; Awarded Shastri Fellowship & Graduate Research Award.

*Research Assistant, Bachelor's Project — Prof. Rohit Srivastava, Nanobios Lab*                    *2019-2020*

- Developed complete sensing hardware for **2 low-cost medical devices** to monitor Na+, K+ & Creat., Alb. concn. in body fluids like urine.
- Achieved **20X cost savings**; Led to patents & **2 IEEE papers**; got UG Research Award by IITB & National Innovator Award by NRDC.

## OTHER WORK EXPERIENCE

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| *India Lead · Core Organising Team · Moderator— **Honda Ecotechnology Forum, Tokyo*** | *2019-2021* |
| *Program Committee—**IJCAI Workshop on AI for Social Good, Yokohama*** | *2021* |
| *Invited Industry Speaker— **IITB-CEP Executive Education Program, IIT Bombay*** | *2020 & 2021* |
| *Academic Reviewer— **IEEE GRSL, Springer Supercomputing, IEEE WACV*** | *2019-2021* |
| *Member— **Gender Cell, IIT Bombay*** | *2019-2020* |
| *Division Head— **Mars Rover Team - Research & Biosensors, IIT Bombay*** | *2016-2018* |
| *Panelist—**International Symposium on Ecotechnologies, RUPP Cambodia*** | *2019* |

## ADDITIONAL INFORMATION

**Blackstone Business Challenge'19:** 3$^{rd}$ Prize among 250+ pre-final year students, tested on valuation skills & investment deck presentation.
**All India Rank 15 (AIR)** in Group Maths Olympiad'12. **AIR 26** & **STATE 3** in KV Junior Maths Olympiad'12.
**Technical Skills:** Python, R, SQL, MATLAB, C
**Languages:** English, Hindi, German (5 years | CEFR B1+ eq.), Japanese (2+ yr | JLPT N4+ eq.)
**Clubs:** Cooking, Dramatics, Finance (IITB & NBS), Photography; Photos in Click Japan! Exhibition, TheGallery Delhi, Aug'19