

# Amey Noolkar

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## Summary

**AI Researcher | ML Engineer | Data Scientist**

UK-trained AI researcher with a master's degree from a top UK university, one published paper at an A-rated conference, 3 years delivering ML solutions, and 2 years teaching ML at university level. Ready to drive cutting-edge AI research and development.

## Research & Professional Experience

- **Research Engineer** Dec 2021 – Jul 2022  
TCS Research, **Tata Consultancy Services**, Pune, India  
  
Trained models to predict customer churn with 92% accuracy for an Investment Intelligence project. Delivered production-ready applications of Deep Learning in Finance.
- **Research Fellow** Dec 2020 – Dec 2021  
School of Technology & Computer Science, **Tata Institute of Fundamental Research**, Mumbai, India  
  
Collaborated with a team of leading scientists to successfully develop the [Oxygen Planner prototype](#) to mitigate the Oxygen crisis during the 2<sup>nd</sup> wave of COVID-19 pandemic in India and eliminate shortages with a 99% rate of success.  
  
Delivered a Monte Carlo simulation model that highlights the impact of vaccination on the spread of COVID-19 in the city of Mumbai. Predicted positive outlook to ease travel restrictions and advised the authorities about the forecast.
- **Data Scientist** Jul 2019 – Dec 2020  
Enterprise Analytics Platform for **Deutsche Bank**,  
**Tata Consultancy Services**, Bengaluru, India  
  
Functioned in multiple critical client-facing roles to deliver value in terms of data pipeline engineering, automation, service integration and dev-ops co-ordination, in order to fulfill crucial deliverables to develop Big-Data Analytics tools for a Business-Insights Reporting Service for Financial Risk and Compliance Assessment.

## Publications & Contributions

Noolkar, A., & Sanchez, V. (2025). **Simultaneous Multi-Object Multi-Camera Trajectory Forecasting (SMO-MCTF)**. In *Proceedings of the Winter Conference on Applications of Computer Vision Workshops* (pp. 895-901), Feb 2025, Tucson, USA.

### [MCMOTF Problem Exploration](#), WPCCS'23

Noolkar A., Sanchez V. (2023). **Multi-Camera Multi-Object Trajectory Forecasting Problem Exploration Talk**. An exploratory presentation of the main research question of my work on the problem of MCTF, delivered at the Warwick Postgraduate Colloquium on Computer Science, March 2023, University of Warwick, UK.

### [Oxygen Planner for States in India](#)

Juneja S., Saptharishi R., Srivastava P., Mittal D., Noolkar A., Eeshan A. (2021). Oxygen Planner for States in India. A tool for forecasting district-wise weekly oxygen demand by COVID-19 patients and scheduling supply to meet the requirement.

## Education

**Ph.D. in Computing Science** Apr 2024 – Oct 2027

Title: *Digital sensing and intervention for well-being in workplace* (multi-modal bio-metric signal processing)

**University of Glasgow**, United Kingdom

**M.Sc. (by Research) in Computer Science** Sep 2022 – Apr 2024

Title: *Simultaneous Multi-Object Multi-Camera Trajectory Forecasting (SMO-MCTF)* (Computer Vision)

**University of Warwick**, United Kingdom

## B.Eng. in Computer Engineering

Aug 2015 – Jun 2019

Modules: *Machine Learning, Digital Logic Design & Analysis, Analysis of Algorithms, Distributed Databases, Discrete Mathematics, Object-oriented Programming*

K. J. Somaiya Institute of Engineering & Information Technology  
University of Mumbai, India

CGPA: 7.54/10

## Teaching & Internships

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- **Tutor** Aug 2024 – Present  
Student Learning Development, **University of Glasgow**  
And **Graduate Teaching Assistant**  
School of Computing Science, **University of Glasgow**, Glasgow, UK  
Course lead, Lab tutor, Examiner and 1:1 Advisor
- **Senior Graduate Teaching Assistant** Oct 2022 – Sep 2023  
Department of Computer Science, **University of Warwick**, Coventry, UK  
Lab tutor, Examiner and Invigilator.
- **Teaching Assistant** Jul 2021 – Dec 2021  
School of Technology & Computer Science, **Tata Institute of Fundamental Research**, Mumbai, India  
Lab tutor and exam-lead for Machine Learning
- **Intern on a Collaborative Final-Year Engineering Project** Jul 2018 – Jun 2019  
*Trigger Algorithm Development using a  $\mu$ -TCA-based FPGA*  
Department of High-Energy Physics,  
**Tata Institute of Fundamental Research**, Mumbai, India
  - Implemented a Proof-of-Concept design of an unsupervised clustering algorithm on a  $\mu$ -TCA-based Field-Programmable Gate Array (FPGA) with a UART-based FPGA-Computer Communication Interface and successfully demonstrated the use of an FPGA-based high-speed noise filter to clean the signal from the sensors of the Large Hadron Collider (LHC) of the European Organization of Nuclear Research (CERN).
- **Intern on a Scientific Software Engineering Project** Jul 2017 – Jun 2018  
*Fetching LHC Fill Information from Online to Offline Database (LHCFillInfo O2O package upgrade)*  
Department of High-Energy Physics,  
**Tata Institute of Fundamental Research**, Mumbai, India  
In collaboration with: Alignment-Calibration & Databases (AlCaDB) team,  
**Compressed Muon Solenoid (CMS) Experiment**,  
**European Organization for Nuclear Research (CERN)**, Switzerland
  - Collaborated with scientists and technical stakeholders to successfully develop scripts and automate their execution in a C++-based scientific software framework for retrieving and persisting sensor readings in a database designed for virtual reconstruction of LHC collision sequences.

## Awards & Achievements

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- **Nokia Global Studentship Scholar**, Nokia Bell Labs Industrial Scholarship (Aug 2023)  
College of Science & Engineering, University of Glasgow
- **Winner, “Touch The Jovian Moon” Mission-Design competition** (May 2018)  
Liquid Propulsion Systems Centre, **Indian Space Research Organization (ISRO)**, India.
- **Student of The Year** (Higher Education) (Sep 2018)  
And **Outstanding Boy Student** (Higher & Technical Education)  
**Somaiya Vidyavihar** group of institutions, Mumbai, India.
- Participant, **ACM-ICPC 2018 Regional Round** (Dec 2017)  
International Collegiate Programming Competition, Amrita School of Engineering, Coimbatore, India.
- **Master Nirmala** (Outstanding Boy Student) (Jan 2013)  
**Nirmala Convent High School**, Nashik, India.