# Siddharth Dixit

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## EDUCATION

**SHIV NADAR UNIVERSITY**
BS (Research) in mathematics & computer science (minor)
Specialization: machine learning
2017-2021 | Delhi (NCR), India
CGPA $7.82/10$
Intermediate: $94\%$
high school: $93.4\%$
(aggregate of $99\%$ in Maths & CS)

## LINKS

Medium:// **sid-darthvader**
Github:// **Sid-darthvader**
Linkedin:// **Siddharth Dixit**
Twitter:// **sid__darthVader**
Google Scholar:// **Siddharth Dixit**

## RELEVANT COURSES

- Time Series & Forecasting (A)
- Bayesian Networks (A)
- Deep Learning (A-)
- Machine Learning through R (A)
- Dynamical Systems (A)
- Data Analytics for Societal Applications (A)
- Big Data Technologies (A-)
- Mathematical Finance (A-)
- Probability & Randomized Algorithms (A-)
- Optimization (B-)
- Partial Differential Equations (B)
- Linear Algebra- I, II (B-)
- Genetic Algorithms (B-)

## SKILLS

**PROGRAMMING**
Over 5000 lines:
• Python • R • Java
Over 500 lines:
• C • SQL

## OPEN SOURCE

Contributed to projects on Causal ML:
• Microsoft DoWhy
• Microsoft DICE

## WORK EXPERIENCE

**STONES2MILESTONES** | manager - data science
Aug 2021- Present | Gurugram, India (Remote due to COVID-19)
Formulating & carrying out the end-to-end implementation of product data science projects to improve the following KPI's for over 300,000 registered users:
- New User Acquisition: KPI- Lead Conversions
- User Engagement: KPI- Average Time Spent
- User Retention: KPI- Daily Active Users

**CAUSALENS** | data scientist-innovative applications of causal AI
Dec 2020-May 2021 | London, UK (Remote due to COVID-19)
• Worked as an intern with the Marketing & Applied Data Science (ADS) teams to come up with innovative business use-cases of Causal AI in Banking, Marketing, Insurance, Telecommunications, Retail, Manufacturing among other industries.
• Carried out proof-of-concept data science work for:
  - Credit Risk Modeling in SME Lending [ White Paper ]
  - Predictive Lead Scoring for B2B businesses
• Assisted ADS with data science work for client projects
• Suggested product improvements by reviewing latest research on Causal ML

**SHIV NADAR UNIVERSITY** | teaching assistant
Aug-Nov, 2020 | Delhi (NCR), India
• Co-taught MAT-494: Deep Learning for Predictive Modeling [ Course Page ] to $3^{rd}$ & $4^{th}$ year undergraduate students at Shiv Nadar University.
• Conducted weekly lecture recaps & lab sessions in R & Python with a focus on solving business problems using Predictive Modeling.
• Co-supervised 7 student projects on using Deep Learning to solve problems in Healthcare, Banking, Asset Management & CRM.

## RESEARCH EXPERIENCE

**LEEDS INSTITUTE FOR DATA ANALYTICS** | visiting researcher
July- Aug 2021 | Leeds, UK (Remote due to COVID-19)
Worked with the Alan Turing Institute and a tech company- Vet AI to develop a forecasting model to staff vets and nurses working in the app over a 24-hour period.

**UNIVERSITY OF LUXEMBOURG** | Visiting Research Scholar
Feb-Mar, 2020 | Luxembourg City, Luxembourg
Conducted research on Physics inspired Machine Learning and Machine Learning led discovery of new materials under the guidance of Prof. Stephane Bordas.

**ALAN TURING INSTITUTE** | Visiting Researcher
AUG 2019 | Bristol, UK
• Part of a cross-functional team of 10 researchers and data scientists tasked to tackle the problem of Air Pollution in Bristol City Center using Machine Learning.
• Worked on identifying location-wise $NO_x$ predictors & developing Predictive ML models linking Climate, Air Pollution & Traffic data.
• Analyzed the model results & provided data-driven suggestions which could be used by the Bristol government to reduce air pollution in their City Center.

## RESEARCH PUBLICATIONS

• "Get Bristol moving: Tackling air pollution in Bristol city centre" [ Alan Turing Institute ]
• "Network learning approaches to study Happiness" [ Arxiv ]
• "Machine learning approaches to identify and design low Thermal Conductivity Oxide Alloys for Thermoelectric applications" [ Cambridge University Press ] & [ FAIR-DI, Berlin-2020 ]

# EXTRA CURRICULAR

**FOUNDER & PRESIDENT- SNU.AI** Oct 2019- Nov 2020 | Shiv Nadar University

- Appointed by the Director of Research at my university to start a club that encourages AI research at the undergraduate level.
- The club gained immense popularity and over a period of 1 year, I mentored over 50 undergraduate students to learn ML and apply it to research projects within their field of interest.
- Organized talks & webinars with AI researchers and Industry experts from different parts of the world.
- Served as the editor of a Medium Publication where students from the club wrote technical articles on AI & its applications.

# SCHOLARSHIPS & GRANTS

- Received a funding of £1100 to visit the University of Luxembourg in 2020 and conduct research on the applications of Machine Learning in Biomechanics by the European Union's Horizon 2020 research and innovation programme
- Awarded vice chancellor's funding of £800 to support my visit to the University of Bristol in 2019 and participate in the DSG organized by the Alan Turing Institute.
- Awarded a scholarship of 50% on the tuition fee by Shiv Nadar University, India for pursuing their BSc (Research) in Mathematics program.