

# NIKHIL N KANTA

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An Entrepreneur, Physicist and Data Scientist. Primarily interested in building Organisations, Open source tools and Data Empowered Transparent Society.

## SUMMARY

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Sept 2020 - May 2023 **TUBR LTD** - CTO and Co-Founder, Spatial Time series Machine Learning

May 2020 - Now **Vrook.co** - Lead Software Developer, Development of Open-edx based LMS for Colleges.

Nov 2019 - March 2020 **Cydee Technologies Pvt Ltd** - Intern, Street Lighting and IoT infrastructure.

May 2017 - May 2018 **Post Graduate Research** - Analysis of Stackoverflow Website with knowledge network.

## TECHNICAL STRENGTHS

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<b>Programming Languages</b>	C, Python, SQL
<b>Frameworks &amp; Tools</b>	HTML, LaTeX, git
<b>Databases</b>	MYSQL, Data Lakehouse, Snowflake, S3
<b>Infrastructure</b>	GCP, AWS, Digital Ocean
<b>Container Orchestration</b>	Docker, Kubernetes
<b>Real-time Architecture</b>	Kafka, MQTT, Amazon Kinesis
<b>Python</b>	3.x, Flask, Django, Keras, Networkx
<b>Methodologies</b>	Agile, Lean, Iterative

## EDUCATION AND SCHOLASTIC ACHIEVEMENTS

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**Indian Institute of Technology Madras** *August 2016 - July 2018*  
Master of Science *Overall GPA: 6.57/10*  
Department of Physics

**The National Degree College, Jayanagar** *August 2013 - July 2016*  
Bachelor of Science *Overall Percentage : 70%*  
Physics, Chemistry, Mathematics.

Ranked **337** in the **CSIR-NET** December 2017 and is qualified for the **JRF-NET** scholarship.

## EXPERIENCE

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**TUBR, Ltd. London, UK** *Sept 2020 - Now*  
*CTO and Co-Founder, Spatial Time series Machine Learning*

- Led teams to build state-of-the-art ML Ops system that decreased the cost of cloud by 80%.
- Helped Develop Innovative ML in Sparse-Data Time-series ML algorithms that can handle complete and incomplete data-sets.
- Filed for patents in UK (App. No. GB2212491.1 - Method and system for predicting spatial occupancy) as Inventor.
- Raised Pre-seed Round of funding at an evaluation of £3.6M. Supported the raise of seed round funding.
- Took responsibilities of financial planning, pre-sales, team hiring and pitching at events.

**Vrook.co. Bangalore, India**

March 2019 - Present

*Lead Software Developer (A fork of Open-Edx)*

- In-charge of building, deploying and maintaining the Open Edx fork called Vrx.
- In charge of building the Intelligent Tutoring System which includes an in depth self analytics for student, Intelligent Evaluation system and a Chat-bot for learning, Career Pathway Visualisation.
- Deployment and Orchestration of the Docker containers in Kubernetes Environment.

**Cydee Technologies Pvt Ltd**

Nov 2019 - March 2019

*Intern*

- Was in charge of planning, prototyping and building the public IoT Infrastructure platform which included a maps based platform for end users, along with development of sensors for the infrastructure.
- Was in charge of Financial modelling, Funds Raising, Pitching at investors meet and Investor's Relationship.
- Worked with business development team and participated in sales activities at the company.

**IIT Madras**

May 2017 - May 2018

*Postgraduate Research*

- Built a Network of tags from the data of website Physics Stack Exchange.
- The built Network represents a Knowledge Network whose analysis gave information about the current Knowledge of that platform.
- The Community partitions of this network yielded the Sub-fields of physics from the Knowledge Network.

**POSITION OF RESPONSIBILITY**

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**Live Creative Trust**

June 2015 - Nov 2019

*Co-founder & Secretary*

- Live Creative is a non-profit organization which works with Students in Bangalore to help them with career choices.
- Organized talks and workshop which were attended by 200+ students.
- Was in charge of developing the Workshop programs for 3D Printer and Aeromodelling, including making BOM, Procurement and handling the Software development needed for the programs.

**Students' Placement Office**

Aug 2017 - April 2018

*Placement Coordinator & Executive Member of Ad-Hoc Committee**IIT Madras*

- Acted as the Placement Coordinator for the M.Sc, where I was responsible for the placements of 90 Students involving 150 companies. 37 Students got placed in various companies.
- Was an Executive Member of Ad-Hoc Committee for the recognition and betterment of the Placements for the M.Sc students. The Committee made proposals for the same, which resulted in the sharp increase in the number of placements from 37 in 2017-2018 to 95 in 2018-2019.

**EXTRA-CIRRICULAR**

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Amateur Astronomer, You can find me hunting for dark skies when ever I find time.

Actively working with a local science group to raise awareness of sciences to students.

Works with Garike, A cultural NGO working with rural children to cultivate arts and raise awareness of fading cultures.