

Tinku Supakar

Engineer|Data Analyst

DATA ANALYTICS PROJECTS

- **Neural Chef** – Created a vegetable recognizer app which will identify different vegetables from its images and will suggest corresponding recipes using a recipe API. (Deployed website- <https://vege-neural.herokuapp.com/>). (Github link-<https://github.com/neelarka/Neural-Chef>). (Technology Used- Pandas, Numpy, Flask, HTML, CSS, Bootstrap, JavaScript, Plotly, D3.js., API, Deep-Learning).
- **Flight-Statistics-Dashboard** – Analyzed the aviation data for united states domestic flights from the Bureau of Transportation Statistics within a 5 year span (2013-2018) to draw trends related to flight delays and airlines performance. (Deployed website - <http://flightstats.ml/>), (Github link-<https://github.com/cantugabriela/Flight-Statistics-Dashboard>). (Technology Used- Pandas, Flask, SQL-Alchemy, HTML, CSS, Bootstrap, JavaScript, Plotly, D3.js., Tableau).
- **Pedal Through Austin** – Our team Independently analyzed the bike sharing data from the Austin B-Cycle company within a 5-year span (2013-Present). The analysis seeks to draw trends related to the demand of the service. (Github link-https://github.com/neelarka/Pedal_through_Austin). (Technology Used- Matplotlib, Pandas, Numpy)
- **More projects at <https://github.com/neelarka>**

CAREER BACKGROUND

Haiti Now (Ayiti Now Corp), Dec 2018 – Present
Website Developer (Remote, Volunteer)

Texas Tech University, (August 2014 – May 2016)

- Teaching Assistant (3 semesters) for undergraduate Level Fluid Mechanics course- Taught discussion class, solved practice problems and graded weekly homework problems and quizzes.
- Research Assistant in High Speed Imaging Lab under the supervision of Dr. Jeremy Marston – Provided a model system for studying the dynamics of particle-laden interfaces by embedding hydrophobic particulates across the entire free-surface of liquid droplets. Successfully submitted a proposal for grant. (link - https://scholar.google.com/citations?user=fuJq_VMAAAJ&hl=en).

Indian Institute of Technology, Kharagpur, (Dec 2013 – May 2014)

- Researcher/Analyst at Microscale Transport Process Laboratory (MTPL)- Performed studies on the extended meniscus of partially wetted thin film over silicon wafer for application in selective cooling of hot spots in IC Chips. (Technology used – Image analysis techniques, MATLAB)

McNally Bharat Engineering Co. Ltd, India, (July 2010 – July 2012)

- Associate Project Manager- Responsibilities included planning, material procurement from vendor, arranging material inspection at the vendor place, maintenance of billing schedule, tender discussions & offer evaluation, supervising site activities & co-ordination between different departments and with customers for green anode plant (GAP) and hyper dense phase system (HDPS) projects

CONTACT DETAILS

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Github: <https://github.com/neelarka>

LinkedIn: <https://www.linkedin.com/in/tinku-supakar-32357516/>

Website: <https://neelarka.github.io/My-Portfolio-Website>

SKILLS AND ABILITIES

Python (Scipy, Numpy, Matplotlib, Pandas, API, Beautiful Soup), Databases (MySQL, MongoDB), Front end (HTML, CSS, Bootstrap, Javascript, Plotly.js, D3.js., Leaflet.js), Dashboarding, SQL-Alchemy/Flask, Web-Scraping, Excel (Pivot tables, Conditional Formatting, VBA), Tableau, Machine learning, Deep-Learning, Natural language Processing.

ACADEMIC BACKGROUND

The University of Texas at Austin

Data Analytics and Visualization Boot camp, 2019

Texas Tech University

Master of Science in Chemical Engineering with Thesis titled: Experimental study of liquid marble formation and deformation dynamics, 2016

Indian Institute of Technology, Kharagpur, India

Master of Technology in Chemical Engineering, 2014

Jadavpur University, Kolkata, India

Bachelor of Chemical Engineering, 2010

HONORS

- Texas Tech University – TTU Michael M Laird End Scholarship, Chemical Engineering Graduate Scholarship
- MHRD scholarship for All India Rank 238th in Graduate Aptitude Test in Engineering (GATE).
- All India Rank 334 in 3rd National Science Olympiad 2001.

PUBLICATIONS AND CONFERENCES:

Publications:

1. Supakar, T., Moradiafrapoli, M., Christopher, G.F. & Marston, J.O., Spreading, encapsulation and transition to arrested shapes during drop impact onto hydrophobic powders, Journal of colloid and interface science(468), 10-20 (2016). (Impact factor 3.368).
2. Supakar, T., Kumar, A. & Marston, J.O., Impact dynamics of particle-coated droplets, Physical review E (95), 013106 (2017). (Impact factor 2.288).

Conferences:

1. Marston, J. O. & Supakar, T., Impact dynamics of liquid marbles, Proceedings of 69th annual meeting of the APS division of fluid dynamics(61), November 2016, Portland, Oregon