TINKU SUPAKAR

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

Education Details:

The University of Texas at Austin — July 2018 to Jan 2019
Data Analytics and Visualization Certificate Program

Texas Tech University, Lubbock, U.S.A — Aug 2014 to Aug 2016
Master of Science in Chemical Engineering with Thesis titled: Experimental study of liquid marble formation and deformation dynamics

Indian Institute of Technology, Kharagpur, India — June 2012 to May 2014
Master of Technology in Chemical Engineering,

Jadavpur University, Kolkata, India — June 2006 to May 2010
Bachelor of Chemical Engineering

Skills and Tools:

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

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).
- **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)
- **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/), (Code- https://github.com/cantugabriela/Flight-Statistics-Dashboard). (Technology Used- Pandas, Flask, SQL-Alchemy, HTML, CSS, Bootstrap, JavaScript, Plotly, D3.js., Tableau).

More projects at https://github.com/neelarka

Professional Experience:

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

Texas Tech University, Lubbock, Texas — (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_VMAAAAJ&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.

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

Volunteer/ Extra-Curricular Activities:
- Virtual Volunteer in Nepris Inc (May 2018): Participated in Nepris skills-based volunteering platform to connect with teachers and students across America, bringing real-world relevance and application to classroom instruction
- Participated in Livestrong honor 5K/10K Marathon to support cancer victims

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