

# Aviral Srivastava

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<b>EDUCATION</b>	<b>Vellore Institute of Technology</b> , Chennai, Tamil Nadu, India. ▪ B.Tech, Computer Science. CGPA : 8.34 / 10.00(relative)	Jul 2014 - May 2018
<b>WORK EXPERIENCE</b>	<b>SocialCops</b> ▪ Data Engineer <ul style="list-style-type: none"><li>• Building Data Collaboration platform at SocialCops: serverless data streaming and data processing</li><li>• Built Versionator: version control for tabular data</li><li>• Built Pallet: an abstraction of Airflow to automate the generic ETL Pipelines.</li><li>• Built Data Repository: "Versionator" to version data files of all formats.</li></ul>	Jul 2018 - Present
	<b>Bubble</b> ▪ Co-founder. <ul style="list-style-type: none"><li>• Built a distributed systems for processing social media content and applying emotional as well as sentimental analysis.</li><li>• Got selected in Y-Combinator startup-school 2019 in mentorship track.</li><li>• Got featured on IBM's developer blog.</li><li>• Stack: Python, NodeJS</li></ul>	Apr 2017 - Jun 2018
	<b>SocialCops</b> ▪ Data Engineer Intern <ul style="list-style-type: none"><li>• Built Woodward: An automating micro-service for pricing.</li><li>• Introduced Event Sourcing mechanism in Collect app for various business use cases.</li></ul>	May 2018 - Jun 2018
	<b>Wingify</b> ▪ Software Developer Intern. <ul style="list-style-type: none"><li>• Built Segmenter Services for VWO and PushCrew: Used by 10k+ accounts daily.</li><li>• Stack: PHP</li></ul>	Dec 2017 - Mar 2018
	<b>Commutatus</b> ▪ Full Stack Developer Intern. <ul style="list-style-type: none"><li>• Built Customer Relationship Management tools.</li><li>• Stack: Python, PHP</li></ul>	Jun 2016 - Jul 2016
	<b>LeagueSX</b> ▪ Python/Django Backend Developer Intern. <ul style="list-style-type: none"><li>• Built a content-management system for daily updates in football leagues.</li><li>• Worked on making a "private-league" option in the fantasy football game.</li><li>• Stack: Python</li></ul>	Dec 2015 - Feb 2016
<b>RESEARCH EXPERIENCE</b>	<b>School of Computing Science</b> , University of Manchester ▪ Data Science Research Intern. <ul style="list-style-type: none"><li>• Implementing membranous plasticity in the Kinetic LGN Model using Regression Learning.</li><li>• Built a computational neural mass framework to study synaptic mechanisms underlying alpha and theta rhythms using Numerical Analysis.</li><li>• Mentor: Dr Basabdatta Sen Bhattacharya, Researcher, Kirkland Building, University of Manchester, UK.</li><li>• Stack: Python</li></ul>	Aug 2017 - Present
	<b>School of Computing Science and Engineering</b> , VIT University ▪ Data Science(Machine Learning) Intern <ul style="list-style-type: none"><li>• Built a Machine Learning model to predict backlogs of Engineering undergrads.</li><li>• Accuracy of &gt; 95%</li><li>• Mentor: Prof Sakkaravarthi, Former Professor, VIT University, Chennai.</li><li>• Stack: Python</li></ul>	Sep 2017 - Nov 2017
	<b>School of Computing Science and Engineering</b> , VIT University ▪ Software Engineering Research Associate <ul style="list-style-type: none"><li>• Proposed a method: a framework of designing Requirements Engineering in IoT based applications.</li><li>• Applied requirement engineering models for Object Oriented Design and Analysis(OODA-RE).</li><li>• Published a research paper in IJSEA 2018 January edition.</li><li>• Mentor: Dr M Sivagami, Professor and Researcher, VIT University, Chennai.</li><li>• Stack: Python, Java</li></ul>	Jul 2017 - Dec 2017

- Data Science Research Intern.
  - Worked on Mapper Algorithm, a topological data science research project. Led a team of three interns.
  - Built a Cloud generation platform: Cloud (randoms or algorithmic generated) around a graph (connected, disconnected).
  - Improved the processing chain with (minimally) filter functions in terms of visualization of the results.
  - Mentor: Dr Vitaliy Kurlin, Associate Professor, Computer Science, University of Liverpool, UK.
  - Stack: Python, C++, Boost Graph Library

**PUBLICATIONS**

- A Software R E Technique Using OODA-RE and CSC for IoT Based Healthcare Applications Jan 2018

**PROJECTS**

- EEG Simulator
  - Free Open Source EEG Simulator for use by Researchers.
  - Applied Regressional Learning algorithms to make it adaptable to different states of mind: resting, gaming, etc.
  - Included pre-processing and cleaning of EEG recordings for their further simulations/
- Self Driving Remote Control Car
  - A remote control car which is to be driven on a path for a few times via keyboard to make it learn the path and then it can drive itself without any human involvement(even remotely).
  - Usage proposed to Integral Coach factory where remote automation is to be replaced by this model.
  - Max testing accuracy achieved: 73 percent, maximum training accuracy achieved: 90
- E-Commerce Framework
  - Created a framework easy to customize(back-end) on MVC ideology
- Vishleshan
  - An MVC framework providing REST API Services for Conversion Optimization Platforms.
- CICD Pipeline de Docker
  - A CICD pipeline for Dockerised Cloud App
- Footfall Tracker
  - To track footfall for everyday inside mess and then based on the data calculated generate statistics.
  - Applied Linear Regression to the Wei-bull distribution and predicted the number of students that would turn up in the canteen on a given Menu.

**SKILLS****AND INTERESTS**

- **Development:** AWS Glue, Kubernetes, Airflow, Key-value databases viz Cassandra, RocksDB, etc; Celery, Hadoop, Spark, Redis, Memcache, Kafka, Django, OpenCV, Boost-Graph Library, Py-Test, Wordpress, Woo-commerce.
- **DevOps:** Vagrant, Git, Docker (Basic), AWS, Linux.

**VOLUNTEERSHIP**

- **Love Heals Cancer:** Social Media Marketing, On-ground report verification.