

Aviral Srivastava

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

- PUBLICATIONS**
- A Software RE Technique Using OOADA-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:** Celery, Hadoop, 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.