

1/200 VASUDEVAN STREET,  
JAWAHARLAL NAGAR, REDHILLS,  
CHENNAI - 600052

## RAVI KIRAN S

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### EMPLOYMENT AND OPEN SOURCE CONTRIBUTIONS

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<b>Google Summer of Code</b> <b>Student Developer (Remote)</b>	<b>CERN, Geneva</b>	<b>April 2018 - August 2018</b>
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#### ROOT-TMVA:

- Implemented the deep learning optimization algorithms like SGD, RMSProp, Adam etc for the ROOT-TMVA project.
- Link to Project : <https://summerofcode.withgoogle.com/projects/#5779525665816576>

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<b>Machine Learning Intern</b>	<b>Kenome Technologies, Bangalore</b>	<b>May 2018 - June 2018</b>
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#### Entity Tagger:

- Built a deep learning model to perform sequence tagging for colors, materials and patterns in the document.
- Built an efficient method for data-annotation using Trie datastructure.
- Built a dashboard for visualization of the cryptocurrency prediction model using plotly and d3 libraries.

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<b>Software Development</b>	<b>Amazon, Chennai</b>	<b>June 2017 - July 2017</b>
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#### Engineer Intern

#### FireTVStick:

- Built a prototype for integrating "Marketing Notifications" in FireTVStick.
- Built a prototype for integrating "Rate Now" feature for Amazon Prime Videos.

### EDUCATION

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<b>Chennai, India</b>	<b>Anna University - College of Engineering, Guindy</b>	<b>2015 - 2019 ( Expected )</b>
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- Pursuing B.E in Computer Science and Engineering. CGPA: 9.52/10 ( 6 semesters )

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<b>Chennai, India</b>	<b>Velammal Matric Higher Secondary School - Surapet</b>	<b>2013 - 2015</b>
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- Class XII, Tamil Nadu State Board. Score: 1165/1200.
- Class X, Tamil Nadu State Board. Score: 493/500. ( District 3rd )

### PROJECTS:

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- Customized Adversarial Image Generator (2018)** : Created a fast and efficient Customized Adversarial Image Generator which can generate adversarial images for MNIST dataset by implementing the variation of Fast Gradient Sign Method (FGSM) algorithm. (PYTHON, TENSOR FLOW)
  - Credit Card Fraud Detection (2018)** : Created a model to predict whether a given credit card transaction is fraudulent or not using multivariate gaussian distribution. (PYTHON, TENSOR FLOW)
  - Online Assessment System (2017)** : Created an Web App for Online Assessment System for College Students using Flask framework and Bootstrap framework. (PYTHON, HTML, CSS, MYSQL)

### COURSES ACCOMPLISHED:

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- Design and Analysis of Algorithms, Programming and Data Structures, Operating Systems, Database Systems.
  - Machine Learning, Deep Learning, Big Data Analytics.

### ADDITIONAL EXPERIENCE AND AWARDS:

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- CCDSAP Advanced Level Exam Certified**: Secured a score of 1000/1000 in the advanced level exam of Codechef certified data structures and algorithms program.
  - Online Certification Courses**: Completed "Machine Learning, Deep Learning Specialization" Courses on Coursera.
  - ACM ICPC Regionals 2017**: Secured a rank of 30 out of 140 teams in India at ACM-ICPC Chennai Regionals 2017 and a rank of 35 out of 250 teams in India at ACM-ICPC Amritapuri Regionals 2017.
  - Tech Fests**: Winner of several coding competitions in various inter-college tech fests and an active participant in programming contests that happen in Codechef, Codeforces.
  - Blogger**: Author of two blogs [www.ravikiran0606pds.blogspot.com](http://www.ravikiran0606pds.blogspot.com) and [www.codingwithalpha.weebly.com](http://www.codingwithalpha.weebly.com) for newbies in Algorithms and Data Structures. ( with around 10,000 page views ).

### LANGUAGES AND TECHNOLOGIES:

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- C++, Python, Flask, Bootstrap, HTML(Proficient); C, JAVA, CSS, Javascript, Keras, Tensor flow (Intermediate);
  - Android Studio, Eclipse, Code Blocks, VS Code, Jupyter Notebooks, GIT;
  - Linux(Proficient); Windows, MacOS(Intermediate);