Arjun Krishna

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Summary:

I am an IIT Roorkee alumnus currently working at Adobe. I'm passionate about machine learning and data analysis. Through my projects and work experience I was able to familiarize myself how to handle big data and draw inferences from it. I'm interested in developing end to end web and mobile solutions that harness the power of AI. I would love to work with companies working on challenging products and ideas.

Education:

Year	Degree	Institution	Percentage
2015-2019	B. Tech. Electronics Major, Computer science Minor	IIT Roorkee	93.86%
2013-2015	Senior high school (11th and 12th Grade)	Bharatiya Vidya Bhavan	97%
2012-2013	High school (10th Grade)	Bharatiya Vidya Bhavan	100%

Experience:

Duration	Role	Institution	Description
Jun 2019 – Present	Member of technical staff	Adobe Systems	Developed Genshop which is Adobe's in-house deep learning python library for Generative models primarily GANs. Worked on CPU (single and multithreaded) and GPU workflows of Adobe Color Engine (ACE) and Modular Parsing System (MPS)
Dec 2017 – Jan 2018(2 months)	Research Assistant	IIT Roorkee	Worked on Action Recognition with feature fusion.
May 2018 - July 2018 (3 months)	Research Intern	Adobe Systems	Interned with Big Data Experience Lab, Adobe Research, Bengaluru on the project personalized highlighting based on reader feedback.

Skills:

- *Programming*: C++, Python, Java, JavaScript C, Objective C, MATLAB
- *Databases*: SQL, MongoDb
- *Frameworks*: Pytorch, TensorFlow, React.js, Node.js, Android SDK, DirectX12, Metal, Microsoft SDK
- *Developer tools*: Git, Perforce, Visual Studio, Android Studio, XCode, PyCharm

Projects:

Title	Description	Technology stack
Express Wiki	A website that gives you a personal online Wikipedia powered by AI so you can read and organize your Wikipedia.	React, MongoDB, NodeJS, JavaScript, AWS, Python
Express Flowcharts	An android app that helps users quickly create colorful flowcharts, UMLs, and mind maps.	Android Studio, Java
Video segment copy detection	In this B. Tech. thesis work of mine, I have tried to introduce a video hashing method for scalable video segment copy detection to prevent proliferation of toxic and illegal copies of videos online.	Python, Pytorch, Flask
Text detection in natural scenes	Proposed a combination of MSER (Maximally Stable Extremal Regions) detection followed by SWT (Stroke Width Transform) to improve the accuracy of text localization in natural images.	Python, OpenCV

For more of my work and open source contributions please head over to my website.

Achievements:

- Best B.Tech. Project Award IIT Roorkee received from director IIT Roorkee.
- Winner Adobe Shark Tank event.
- KVPY National Scholarship 2015 Fellow.
- Cleared First Stage of CODEFUNDO 2015 conducted by Microsoft.
- District topper of AISSCE (All India Senior School Certificate Examination) 2015 certificate received from education minister India.
- Cleared First Level of International Chemistry Olympiad 2015.

Domain Knowledge:

Data analysis, Computer Vision, Natural Language Processing, Machine Learning, Android App Development, Website Development, Image processing, Color Management, Storage Scalability, System Design

Languages Known:

English, Hindi, Malayalam

***References*:**

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