

# Shubham Agrawal

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## EDUCATION

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<b>International Institute of Information Technology, Hyderabad</b> <i>Master of Technology, CSE</i>	<b>July 2019 - Present</b> <i>CGPA : 9.89</i>
<b>Medicaps Institute of Science and Technology, Indore</b> <i>Bachelor of Engineering, CSE</i>	<b>Aug 2015 - June 2019</b> <i>CGPA : 8.8</i>
<b>St. Mary Champion School, Indore</b> <i>Senior Secondary Certificate</i>	<b>July 2013 - June 2015</b> <i>PCT : 92</i>
<b>St. Mary Champion School, Indore</b> <i>Higher Secondary Certificate</i>	<b>July 2011 - June 2013</b> <i>CGPA : 8.2</i>

## PROJECTS

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<b>Distributed IOT Platform for Smart Cities</b> ○ Implemented a distributed platform that provides build, development, and deployment functionalities. The platform will be able to deploy and run applications that can be used to manage a smart city. The platform is robust and fault-tolerant. ○ <i>Technologies used:</i> Docker, Flash, Python and Kafka	<b>Feb 2020 - May 2020</b>
<b>Wiki Search Engine</b> ○ <i>Dataset:</i> 42GB Wikipedia english dump ○ <i>Pre-processing:</i> Stemming, Lemmatisation and Multilevel Indexing ○ <i>Ranking:</i> TF-IDF Score and Cosine Similarity ○ <i>Searching:</i> Phrase queries and Field queries	<b>Aug 2020 - Sept 2020</b>
<b>Image Classification</b> ○ <i>Datasets Used:</i> MNIST dataset and CIFAR-10 dataset ○ <i>Pre-processing:</i> Centering and Scaling of images and Dimensionality Reduction(PCA) ○ <i>Classifiers:</i> SVM, Logistic Regression, MLP and CNN	<b>Feb 2020 - Mar 2020</b>
<b>Chat App</b> ○ Developed a chatting application in Android using Firebase Realtime database. ○ <i>Features:</i> Authentication, Password Reset, Messaging, Profile image and Notifications	<b>May 2020 - Jun 2020</b>
<b>Version Control System</b> ○ Developed a Version Control system in Python. ○ <i>Functionalities:</i> init, add, status, commit, rollback, retrieve, log, diff, push and pull	<b>Nov 2019 - Dec 2019</b>
<b>Mini torrent</b> ○ Developed a Peer-to-Peer group based file sharing system. ○ <i>Functionalities:</i> Chunk based sharing, Centralized tracker, Piece selection algorithm ○ <i>Technologies used:</i> C++, Socket Programming and Multi-Threading	<b>Sept 2019 - Oct 2019</b>

### Smart Home

Oct 2018 - Dec 2018

- Developed a smart home system with Raspberry pi 3 and also an android app to operate it.
- *Functionalities:* Controlling home Appliances, Door Lock, Security system, Notifications via email
- *Technologies used:* Python, Android and Socket Programming

## TECHNICAL SKILLS

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- **Programming Languages:** C, C++, JAVA, Python, Shell Scripting
- **Web Technologies:** HTML, CSS, JavaScript, XML
- **Development:** Flask, Android, Docker
- **Databases:** MySQL, Oracle, Firebase(Realtime)
- **Version Control:** GIT

## ACHIEVEMENTS

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- Secured **AIR 388** in **GATE 2019** **March 2019**

## AWARDS

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- **Chancellor's scholarship**, RGPV, Bhopal **July 2018**
- **Shri Dewang Mehta Excellence Award** **July 2016**