Aryan Singh

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EDUCATION

BTECH, COMPUTER SCIENCE AND ENGINEERING

TECHNO INDIA (MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY)
July 2017 | Kolkata, India
Graduated with 8.81 DGPA

SKILLS

PROGRAMMING
Java, Python, C, C++ & Shell Scripting (Linux).

BIG DATA
MapReduce, Spark, Flink, Hive, HBase, Oozie, Sqoop, Kafka & Flume.

WEB TECHNOLOGIES
HTML, CSS, Bootstrap, JavaScript, JQuery, PhP, NodeJS & Flask.

DATABASES
Oracle, MongoDB & Redis.

JAVA FRAMEWORK & WEB SERVICES
Spring Boot, Hibernate & RESTful Web Services.

DEVOPS TOOLS
Git, Jenkins, Maven & Gradle.

SDLC
Scaled Agile (SCRUM).

OTHERS
Data Science, Machine Learning, Blockchain and Android Application Development.

COMMUNITY WORK

- Volunteered at cleanliness drive, TCS Maitree, 2019.
- Volunteered at blood donation camp, Red Cross Ahmedabad, 2017.
- Volunteered at fund raising sports & cultural event, Icche Dana, 2013.

WORK EXPERIENCE

TATA CONSULTANCY SERVICES | DEVELOPER
August 2017 – Current | Bengaluru, India
Client – Nordea Bank Abp

- Worked in fraud detection and prevention team to integrate source payment and demographic system to the detection tool (FICO Falcon).
- Wrote MapReduce jobs in Java and used other big data ecosystem tools which transforms ~45GB batch data/daily into Falcon readable format.
- Built micro services in Spring Boot to take real-time POS data using REST API, transform it, connect to Falcon using TCP/IP to send transformed data and finally respond with a decision to API under 100 msec at a peak load of 200 transactions/sec.
- Built an automated system to send SMS to the customer to check if a fraud detected payment is valid. If yes is received, the system changes the metrics in Falcon, which has decreased false positives by over 50% which has saved fraud investigators time and labour.
- Wrote Spark transformation jobs for new systems getting integrated, which are taking 95% less execution time compared to old MR jobs.
- Built system to quarantine new mobile banking ids for some fixed time or until customer manually verifies, to crack down on phishing attacks.

PROJECTS

- **Emotion Detector:** Web application that uses an ML model to detect the emotion in the uploaded image. The model was built using transfer learning and was trained on human and animated faces. The model predicts the probability of each emotion class.
(Python, Keras, TensorFlow, OpenCV, Flask)
- **Toxic Comment Classifier:** Web application that uses ML model to detect the toxicity class of an entered phrase. The model was built by creating embeddings using Glove and then using it in bidirectional LSTM network. The model predicts the probability of each toxicity class.
(Python, Keras, TensorFlow, Flask)
- **Ethereum Token Exchange:** Exchange is built on ERC20 Token Standard, which allows admin to do initial token offering for ethers and allows buyers and sellers to trade tokens for ethers.
(Solidity, Truffle, Mocha, Geth, Infura, JavaScript)

[Note: Please visit my GitHub profile for more information and hands on demonstration of the project. You can also visit my website to interactively browse through other projects.]

ACHIEVEMENTS

- Technical Excellence and Outstanding contribution towards feature completion award at Tata Consultancy Services, 2018 & 2019.
- Awarded the Google India Challenge Scholarship under Udacity's Google's Reskilling India program, 2018.
- Cleared initial round of TCS CodeVita coding competition (95 percentile) twice, 2015 & 2016.
- Ranked 1st at Deloitte Collegiate Cyber Threat Competition at college level, 2016.
- Awarded the special winner at App Wars – Hackathon organised by Google Developers Group, Kolkata, 2015.