ARCHIT MATHUR

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EDUCATION

SKIT, Jaipur

- *B.Tech., Aug '15 - May '19*
  Computer Science

MPS, Ajmer

- *AISSCE 2015 - 93.6%*
  Science, Mathematics, IP
- *AISSE 2013 - 9.6 CGPA*

COURSEWORK

MOOCs

- *Harvard CS50x*
  By David Malan, Harvard
- *Machine Learning*
  By Andrew Ng, Stanford
- *Algorithms : Design & Analysis*
  By Tim Roughgarden, Stanford
- *Facebook Pytorch Scholarship*
  By Udacity and Facebook AI

Curriculum

- *Operating Systems*
- *Databases*
- *Compilers*
- *Data Structures & Algorithms*
- *Software Engineering*

SKILLS

Languages

Python • C++ • C
JavaScript • HTML/CSS

Libraries

Express.js • React.js
Tensorflow • OpenCV
PyQt5 • Scikit-learn
Pandas • Material-UI

Databases

MySQL • MongoDB

Tools

Git • BASH • GCE
Heroku • Matplotlib

EXPERIENCE

Google Summer of Code, CCExtractor

April '18 - Aug '18

- *Developed an open-source and cross-platform software, FabBits, that can catalogue interesting bits from sports and entertainment videos*
- *Achieved cataloguing of goals in soccer matches, actor-specific scenes in movies, jokes in sitcoms, three-pointers in basketball etc*
- *Read, understood, and implemented 11 research papers and referred to more than 25 over the course of summer*
- *Wrote blog posts detailing the underlying concepts and progress*

Software Development Intern, IIT Bombay

May '17 - July '17

- *Worked in a team of two and created a web platform for teachers to gamify school-level curriculum for children aged 5 - 12*
- *Teachers could use pre-built game scenarios and fit quizzes or concepts to maximize students' learning in a fun way*
- *Used Alchemy.js for visualizing game stats to find students' performance in different areas for teacher evaluation*
- *Stood 3rd all over India in the selection competition by making eight high-quality animations using Three.js*

PROJECTS

whatNext | Deep Learning + Web

- *Built a recurrent neural network with Tensorflow that recommends users what technology to learn next based on the technologies they know*
- *Used Cheerio with Github API to build dataset*

blobCloud | Web

- *Created a SPA in React that can save web files directly to user's Drive*
- *Used Node, Express, & Mongo for backend that maintains history and notifies user about transfer status*

IndrasEye | Deep Learning | Team Project @ Rajasthan Hackathon

- *Developed the core engine for a traffic accident detection system*
- *Worked with motion estimation, object detection, & long short-term memory*

Sketch Recognition | Deep Learning + Web | Team Project

- *Studied and used the public Quick, Draw! dataset by Google*
- *Combined the functionalities of CNN and RNN in the model*

noteSort | Natural Language Processing

- *Classifies handwritten notes based on their subject; achieves 70%+ accuracy*
- *Handled OCR, text preprocessing, and model design with PyTesseract, NLTK, and Tensorflow*