Akash Tyagi

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WORK EXPERIENCE

QA INFOTECH | Software Development Engineer - 1   Noida, India | June 2018 – Present (2.2 Year)

- Successfully **converted outsourcing project to in-house** by devising algorithm and presented prototype under 30 days.
- Established ML department in organisation within 1st year and expanded to 3 developers at present.
- Led **development of 3 projects** based on Machine Learning in Education, Entertainment and Testing domain.
- Mentored 3 interns under Python and Machine learning division.
- Initiated a 2 week voluntary program to train employees in Python outside office hours.
- Successfully **convinced prospect client** of major book Publisher for meeting on ML based product under direct collaboration with CEO of QA Infotech.

TECHNICAL SKILLS

Proficient   Python, NLP, Machine Learning, MongoDB, Flask, Data Structures, Linux
Familiar   Java, Hadoop, OpenCV, Selenium, SQL, Django

KEY PROJECTS

AI TESTBANKS | Python, NLP, AWS, MongoDB   http://www.aitestbanks.com/

- Developed NLP based product that generates questions in 5+ categories from ebooks automatically.
- Worked closely with **COO and Vice President** of organization for developing and delivering product.
- **Decreased algorithm runtime by 80%** for finding relevant distractor set with improvised indexing and pattern matching.
- Established product backend with complete codeflow architecture along with integrations with MongoDB, AWS and jenkins.
- Increased **50% more metadata coverage** and text mapping with revamped epub parser and mapping algorithms.

ALTEYE | NLP, OpenCV, Python, Flask, Chrome Extension

- Devised a computer vision based product for testing websites for accessibility for visually impared people.
- Collaborated with **Director of Testing division** for Test suites integration and better handling of real world bottlenecks.
- Hosted backend API's over flask and wrote Test cases and documentations for api coverage.
- **Increased product relevancy** by using word embedding and Image captioning.
- Developed a Chrome Extension leveraging product API for plug and play functionality.

ACHIEVEMENTS

- Hencoder - Published a open source python package to encode-decode any text.
- Speaker at DevSummit 2k19 for talk on Topic Modelling in every day life, a yearly developers conference in organisation.

EDUCATION

A.K.T.U UNIVERSITY | Bachelor of Technology - Computer Science Noida, U.P, India | June 2014 - June 2018