# AKASH TYAGI

Software Development Engineer

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## SUMMARY

Core experience of building and leading development of software products from scratch till production leveraging Machine Learning and Python. Worked closely as team lead with COO, Directors and Vice President of organization to better understand vision, requirements and guidance for product development.

## WORK EXPERIENCE

**QA Infotech** | Backend Developer | 2 Years                    6/2018 - Present | Noida, India

- **Lead team of 3 developers** for development of AI based product for educational assessment.
- Developed the core functionality of **ML based testing product** for visually impaired people.
- Hosted Api's for news publishers for scene detection leveraging **computer vision** and flask.
- **Mentored 3 interns** under Python and Machine learning division.
- Voluntarily conducts Python and ML classes for employees as part of a skill development program.

## TECHNICAL SKILLS

### Proficient
- Python
- NLP
- Flask
- Machine Learning
- MongoDB
- Data Structures

### Familiar
- Hadoop
- Java
- Selenium
- Apache Hive
- OpenCV

## KEY PROJECTS

**AI Testbanks** - NLP, Python, MongoDB, AWS                    (09/2018 - Present)

- Studied multiple research papers and **developed models** for generating questions from text.
- **Enhanced performance by 70%** for the distractor generating module by improved system design.
- Developed the entire backend from custom book parser till question generation and storage along with integrations with MongoDB and AWS as a single developer.
- Worked closely with **COO and Vice President** of organization for developing and delivering product.

**AltEye** - NLP, OpenCV, Python, Selenium, Flask, Chrome Extension                    (02/2020 -04/2020)

- Developed tool to intelligently find website images  relevancy with text and to identify if page context and image are relevant or not.
- Increased relevancy factor using **word embeddings** and **Topic modelling** for Image and alt text .
- Developed a **Chrome Extension** leveraging tool's API for client side usability.
- Worked with Automation Testing division **Director** to better curate the tool for testing needs.

## Education

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| **Bachelor Of Technology** | A.K.T.U University, Noida, U.P, India |
| Computer Science Engineering | (2014-2018) |