Deemah Alabdulaali

Machine Learning Lead

Passionate about using data to drive decision-making and solve complex problems. Focused on managing a team that uses ML models and advanced data techniques to extract insights and patterns from large datasets, as well as designing and optimizing data pipelines to meet business needs.

Experience

2022-10 - Current

Machine Learning Lead

Lean Business Services, Riyadh

- Managing a team of 6 data scientists and machine learning engineers.
- Leading and planning +5 data and machine learning projects from an initial idea to deployment.
- Collaborating with business to identify and prioritize business problems that can be solved with machine learning.
- Identifying and evaluating new machine learning technologies.
- Hands on development of machine learning projects.
- Developing a customized NLP framework.

2022-08 - Current

Machine Learning Lead

Confidential, Riyadh

- Managing a team of 3 machine learning engineers
- Planning NLP projects
- Leading data analytics projects

2020-10 - 2022-10

Sr Machine Learning Engineer

Lean Business Services, Riyadh

- Designed and developed +5 machine learning models.
- Designed and implemented automated data pipelines.
- Deployed machine learning models as service.
- Mentored junior team members.

Contact

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Soft Skills

- Communication
- Leadership
- Problem solving
- Analytical thinking
- Adaptability

Languages & Frameworks

Languages:
- Python
- Java
- Golang
- Html + CSS

Frameworks:
- Tensorflow/keras
- PyTorch
- NLTK
- StanfordNLP
- CAMel
- spaCy
- PySpark
- git
- Unix CLI
- React
- React Native
- Flask

- FastAPI

2020-04 - 2020-10	**Machine Learning Engineer**

Lean Business Services, Riyadh
- Developed machine learning models (Computer vision + NLP).
- Collaborated with data scientists and other engineers to enhance and optimize existing ML projects.
- Tested and validated ML projects.
- Initiate ML training pipelines.

2019-01 - 2020-04	**Software Engineer**

Lean Business Services, Riyadh
- Developed and deployed 2 frontend projects for a unified platform.
- Developed and deployed 2 backend projects (including Oauth).
- Developed cross platform mobile application.

2018-09 - 2019-01	**Software Engineering Intern**

Lean Business Services , Riyadh
- Developed cross platform mobile application and released them to Apple store and Google play.
- Peer developed frontend application of service.
- Tested and validated backend applications and handled integrations with other services.

2018-05 - 2018-09	**Software Engineering Coop**

Lean Business Services, Riyadh
- Learned React, React Native and Golang.
- Participated in development of frontend applications.
- Initiated and developed cross platform mobile application.

Education

2014-06 - 2018-12	**Bachelor's of Computer Sciences: Information Systems (4.99/5.00)**

King Saud University - Riyadh
Graduated with first class honors

Accomplishments

- Developed an NLP framework customized for the medical field.
- Developed a computer vision ML project with +80% metrics, packaged it as a service and built a portal within 4 months.
- Investigated and fixed multiple issues in third party systems.
- Automated training of ML projects on Shaheen super computer.
- Developed a service from A-Z and rolled it out within less than 6 months.
- Ranked 1st out of graduated students with first class honors.
- Scored 95 in Qiyas.
- Passed the national stage and was qualified for the international stage in Mawhiba Physics Olympiad.

Projects

Major Work Related Projects:

NLP:
- Worked on a customized NLP framework in Arabic and English that is used for all NLP projects.
- Worked on automating NLP based reports based on the business need.
- Worked on +3 entity recognition projects (technical role & lead role) from manual labeling to model development and automation.
- Worked on +5 classification projects using different modeling techniques (technical role & lead role).

Computer Vision Projects:
- Worked on a classification model to diagnose one of medical eye conditions with high metrics (+80%).
- Worked on a classification model to diagnose patients with COVID using CT scans with 85% accuracy.

Other ML & Analytical projects:
- Worked on an intensive analysis of data for a

health consultations project. Used NLP and other data analytical techniques to derive insights, and wrote a *scientific* report.

- Participated in the methodology and the published paper that describes the use of ML to predict the readmission of patients.

Consultation Projects:
- Built ML project for classifying satelite imagery.
- Planned a national level automation project in the real estate field.
- Planned an updated version of an existing project that uses NLP to classify Arabic names for acceptance and rejection.
- Led multiple Arabic NERs.