Salih Talha Akgün

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EDUCATION

Saarland University   Saarland, Germany
M.Sc. Computer Science   *2022-2024*
- AI Oriented Track
- Radio Club Member

Istanbul University-Cerrahpasa   Istanbul, Turkey
B.Eng. Computer Engineering   *2018-2022*
- GPA: 3.59/4.0
- OBSS CodeMaster Finalist — 2020, 2021, 2022
- inzva Online Programming Contest for Universities Finalist — 2021
- Active member of Amateur Astronomers Club. Joined several observation nights and seminars since 2019.
- Active member of Cyber Security Club. Joined Introduction to Linux training at 2020.
- Mentoring for Freshmens in my second year. Helped 5 students to solve algorithm problems with the support of ISTEC Center.

EXPERIENCE

AI Researcher   September 2020 – December 2020
CIML Lab   *Global*
- Style Transfer on Criminal Sketches: Read 15 papers on state of the art. Worked on the CUHK dataset. Made a presentation for the research group members from US and Algeria. Discussed StyleGAN and CycleGAN.
- Text and Question Generation: Read 12 papers on the subject. Practiced on SQUAD and WikiQA datasets. Read up on GLUE, BLUE, and Rouge scores. Made research about transformer architectures.

AI Mentee   December 2020 – January 2021
Turkcell   *Istanbul, Turkey*
- Mentored by Caner Canak (former AI and Data Analytics Manager) to design an AI application with a team of five.
- Designed an application to help manage classes. Application will provide question sets about topics. Test results will be evaluated by an AI model to provide more similar questions.

Machine Learning Engineer   January 2021 – Present
Carbon Consulting   *Istanbul, Turkey*
- **Kuzufab Animal Tracking**: Made augmentation on CoCo dataset to create 1k sheep images. Worked on OpenPose and MaskRCNN models. Trained a MaskRCNN and got 99% accuracy. Presented what we achieved to the customers, and proved the concept.
- **HR Chatbot**: Worked to integrate a chatbot with the Teams application. Used BotFramework library to deliver Adaptive Cards and integrate them with Botpress. Worked on NLU and used Duckling to extract time intervals from texts.
- **Investing Bot**: Created a Telegram bot to send hourly, daily, and weekly stock market analyses. Used API's to collect stock market data and sent analysis reports as excel sheets. Reports also include tweet and comment counts from websites and bull&bear opinion counts about shares.
- **GLOSA Front-end**: Developed 7 pages with Vue.js for the Glosa AutoNLP product.
- **GLOSA NLP Core**: Developed the Core Python library for training, inferencing, and hyperparameter tuning NLP models with just a configuration dictionary.
- **Content Extraction**: Developed a language independent statistical model for extracting website contents based on sentence lengths. Made stress testing with Locust. Delivered it with two other extractors as an API to the Yaani Team.
- **HTML Clustering**: Made research about creating embeddings from HTML contents. Worked on IVF, HNSW, and LSH indexes. Tested ScaNN and other composite indexes. Used Faiss library to reach 97% accuracy with 10K QPS on 1.7M vectors. Delivered the current development progress to the Yaani Team.

Bootcamp Instructor   January 2022 – March 2022
Kodluyoruz (NPO)   *Istanbul, Turkey*
- Week 2: EDA, Importance of Data, Supervised/Unsupervised Training
- Week 7: Image Processing, Computer Vision, CNN's

Personal Projects

Hillway Gym | *Android(Java), Firebase*   May 2020 – August 2020
- Designed and developed the login and sign-up pages.
- Designed and developed 7 pages to take the information of the user and automate the creation of a gym schedule.
- Designed and developed a schedule page to list exercises. Each exercise also directs the user to a video of an instruction of the move.

Fit Diet | *Flutter, Firebase*   October 2021 – December 2021
- Initialized the project by designing and developing the first 6 pages. Initialized the Firebase database and written CRUD operations for chatting, meals, meal lists, sport and daily suggestions.
- Managed a team of five to develop the rest of the project. Oversaw the meetings with potential customers.

Medium Content Creator | *Artificial Intelligence, Python*   October 2020 – Present
- Rules of Machine Learning Series - 4 Articles
- Linear Regression Training with One Step
- Ideas Behind GAN's
- Customizing Training with TensorFlow in Python
- 3 Steps to Coding Pythonic

Certificates

Machine Learning Engineering for Production (MLOps) Specialization | *Coursera*

John Snow Labs NLP Certification | *John Snow Labs*

TensorFlow: Advanced Techniques Specialization | *Coursera*

Generative Adversarial Networks Specialization | *Coursera*

TensorFlow Developer Professional Certificate | *Coursera*

Deep Learning Specialization | *Coursera*

Fundamentals of Deep Learning | *Nvidia*

Technical Skills

Languages: Python, Java, Javascript, CSS, HTML, C++, C
Frameworks & Libraries: Transformers, Tensorflow, TFX, PyTorch, OpenCV, BotBuilder, Telebot, Pandas, Numpy, Matplotlib, FastAPI, Flask, Django, Flutter, Firebase, Amazon S3, MongoDB, Redis
Developer Tools: Docker, Kubernetes, Nginx, ngrok, PyCharm, VSCode, Android Studio, Jira, GitHub

Hobbies

Reading: I like reading science fiction novels. I have read The Foundation series by Asimov and I am currently reading the second book of the "Remembrance of Earth's Past" series by Liu Cixin.
Traveling: I like traveling with my bike. I have rode my bike across the Black Sea Coastline of Turkey, exceeding a thousand kilometers.