Parth Sanepara

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Summary

Parth sanepara embedded software engineer

Education

CDAC Bengalore Istanbul, Turkey

B.Sc. in Electrical and Electronics Engineering; ***GPA: 3.62/4.00*** *Sep 2018 – Jun 2023*

Minor Degree in Computer Engineering; ***GPA: 3.58/4.00*** *Oct 2020 – Jun 2023*

National University Admission Exam (YKS): Ranked 75^{th} in Mathematics and Science among ca. 2.3 million candidates with a test score of 489.92/500. (Jul 2018)

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Skills

Languages: Embedded C, Python, C++

Technologies: Django, Node.js, React.js, MySQL, MongoDB, Git, Docker, Amazon Web Services, Kubernetes, Google Cloud Platform, Unity, Linux, ROS, OpenCV, Scikit-Learn, PyTorch, Keras, TensorFlow

Work Experience

SemperTech Istanbul, Turkey

Software Engineer *Sep 2023 – Present, Full-time*

- Currently working on the "Arçelik Digital Home Energy" project in a collaborative effort with DAI-Labor at the Technical University of Berlin under the supervision of Prof. Dr. Şahin Albayrak.
- Simulated data exchange processes with the EEBUS protocol suite using C# and Go frameworks. Migrated the entire framework from Go to C++ in order to ensure future adaptability for smart home IoT devices.

SESTEK Speech Enabled Software Technologies Istanbul, Turkey

AI Research and Development Intern *Jan 2022 – Feb 2022, Internship*

- Implemented various NLP tasks, including NER, POS tagging, sentiment analysis, text classification, and extractive/generative QA using transformers and Hugging Face libraries. Conducted a literature review on information retrieval and reading comprehension to stay updated on the state-of-the-art ML models.
- Developed a generative question answering system with Dense Passage Retrieval and Retrieval-Augmented Generation techniques using the Haystack framework on Python.
- Worked on a Turkish open-domain question answering system by fine-tuning a BERT base model transformer with PyTorch. Evaluated exact match and F1 scores using different Turkish data sets and DeepMind's XQuAD data set and then tabularized the evaluation results.