Abinav R

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TECHNICAL SKILLS

- **Data Science tools** -Numpy, Scipy, matplotlib, seaborn, scikit learn, scikit image, Pytorch, Pandas, OpenCV, Flask, PySyft, Plotly Dash, PySpark, Tensorflow
- **DevOps/MLOps Tool** Docker, Kubernetes, Gitlab runner, Jenkins, Terraform, MLFlow, feast (feature store).
- **LLM tools** OpenAI API, Huggingface API, Gemini API, qdrantDB, Instructor.
- **Programming Languages** - Python, Rust, Go, C, bash, Javascript.
- **Cloud Platforms** - AWS, GCP
- **Database** PostrgreSQL, MongoDB, DynamoDB, DuckDB

EXPERIENCE

- **Machine Learning Engineer TurboML**   November 2023 - Present
  1. Refactor and Modify the Real time SDK for the platform for ease of use
  2. Participate in the design of MLOps tools for Real time platform such as feature drift, feature quality, experimentation etc.

- **Consultant Machine Learning Engineer Machine Learning Reply gmbh** Jun 2022 - August 2023
  1. Building a backend service for Internal data marketplace which handles request monitoring, approval, payment and validation workflows.
     Tools Used - AWS lambda, API gateway, IAM, FastAPI, Terraform.
  2. Developer community lead helping with integrating platforms with a platform
  3. MLOps community of practice lead

- **Machine Learning Engineer deepc gmbh**   Jun 2019 - Mar 2022
  1. Increasing the number of valid requests to vendor algorithms by developing deep learning-based image routing microservice from 46% to 100%
  2. Building benchmarking workflows for pre-assessment of vendor deep learning algorithms by measuring against different datasets and validating claims for prioritising the integration process.
  3. Programmed a User-friendly benchmarking dashboard with user interface by developing structured dataset creation API using Plotly dash and Pandas.
  4. Evaluated various technical use-cases based on data availability and fastest time to product based.
  5. Developed unsupervised deep learning methods for anomaly detection in brain CT scans measured by dice score of segmentation outputs(0.86).

- **Associate Software Engineer, Robert Bosch Engineering and Business Solutions, Coimbatore**   September, 2016 - September 2017

EDUCATION

- **M.Sc, Computational Science and Engineering** Department of Informatics, Technical University Munich   2017 - 2020
- **B.Tech, Mechanical Engineering** Amrita School Of Engineering,Bengaluru, India (First Class with Distinction)   2012 - 2016

OPEN SOURCE

- **Developer dcm-anon** Contributing to a anonymizer package that can anonymize dicom images. In collaboration children's national hospital washington   April 2023 - June 2023
- **Writing team lead OpenMined Writing** Responsible for maintaining the blog, Content editing, induction of new members into the team, facilitation of content production for privacy-enhancing technology July 2021 - Nov 2022

CERTIFICATION

- **Hashicorp Terraform Associate**: Write, plan and provision multi cloud deployment of resources using terraform   November 2022