Abinav Ravi Venkatakrishnan

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TECHNICAL SKILLS

- **Programming Languages** - Python(Advanced), Rust(Intermediate), C(Intermediate), bash(Intermediate), Go, Javascript(basic), Julia
- **Data Science tools** -Numpy, Scipy, matplotlib, seaborn, scikit learn, scikit image, Pytorch, Pandas, OpenCV, Flask, PySyft, Plotly Dash, PySpark, Tensorflow
- **Database** PostrgreSQL, MongoDB, DynamoDB
- **DevOps/MLOps Tool** Docker, Kubernetes, Knative, Gitlab runner, Jenkins, Terraform, MLFlow
- **Cloud Platforms** - AWS (S3 and EC2, ECR, API Gateway, Lambda, DynamoDB, IAM)
- **LLM tools** OpenAI API, Huggingface API, Guardrails, LMQL, jsonformer

EXPERIENCE

- **Consultant Machine Learning Engineer Machine Learning Reply gmbh**   Jun 2022 - July 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. MLOps Community of Practice lead since January 2023

- **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).

- **Data Science Intern, The Mobility House Gmbh**   Oct 2018 - Mar 2019

  1. Performed Data Analysis to understand charging behaviour of vehicles for vehicle-to-grid projects (Time series Data)
  2. Performed Data analysis for pooling concept for frequency containment reserve.
  3. Performed Pattern recognition and forecasting of Energy market data for trading strategies.

- **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** PipelineDP(OpenMined) in collaboration with google with Issue contributed   Feb 2021 - March 2022
- **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 (Valid for 2 years)**: Write, plan and provision multi cloud deployment of resources using terraform   November 2022