Divyae Kishore Prasad

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Professional Statement	*A tech enthusiast by passion and a scientist at heart, I bring creative approaches to solving wicked problems. Over the years, I have delivered projects and acquired expertise in building automated big-data workflows and machine-learning models. Now, with a unique blend of Data Science and Computational background - I want to leverage my experiences to tackle scientific & business challenges, provide insights, and deliver value.*

Education

M.Sc. Computational Biology & Bioinformatics, *track* **Machine Learning**   Feb'17 - Oct'20
Universiteit Utrecht, the Netherlands   aggregate grade - **8.37/10**
B.Tech. Chemical Engineering   Jul'10 - Apr'14
Indian Institute of Technology Bombay, India   aggregate grade - **8.62/10**

Professional Experience

Bioinformatics research scientist, Erasmus Medical Center, Rotterdam   Feb'21 - date
- leading a large-scale global sewage project; focus on mining phage signals in complex metagenomics
- developed workflows for automated assembly, analysis, and visualization of SARS-CoV-2 genomes
- expertise in (meta)data management that comply with the FAIR principle

Mentor and Partnerships, *volunteer at* Techlabs Rotterdam   Jul'22 - date
- journey lead and mentor for the Data science learning track
- coordinated a Sentimental Analytic project that focused on benchmarking the sustainable practices in the Dutch logistics market; stakeholders expectations & project management

Junior Research Fellow, Chemical Engineering, IIT Bombay   May'14 - Feb'15
- developed a stochastic model (Gillespie algorithm implementation) for investigating the distribution of mutations in evolving microbial populations; neutral mutations dominate the rate of genome evolution

Key Projects & Responsibilities

Startup success dashboard, project @Techlabs Rotterdam   Jan'22 - Jun'22
- built an interactive dashboard to help identify the key factors that drive the success of tech startups

Literature Review, Universität Bielefeld   May'20 - Sep'20
- authored Age is not just 'a' number: *through the lens of systems physiology* (thesis, top 10% grade)

Genotype-phenotype mapping via deep learning, CWI Amsterdam   Sep'18 - Apr'20
- developed a novel deep convolutional neural network as a method for complex biomarker discovery; investigated potential interactions in microbial genomes (sample-code, report)
- deployed model training and validations on GPUs on the cloud-based High-Performance Cluster
- benchmarked the performance metrics of the deep learning architecture

Graduate Teaching Assistant, Universiteit Utrecht   May'18 - Jul'18
- teaching and supervision of undergraduate students for the course biomolecular chemistry

Phage-host prediction via machine learning, Theoretical Biology & Bioinformatics   May'17 - Aug'18
- led feature engineering of genomic phage-host adaptations & its multi-dimensional data integration
- employed machine learning algorithms - classification via Random Forests - on large genomic datasets
- achieved $> 90\%$ classification accuracy & discovered the salient features that maximize class separation

Academic Achievements

NWO Scholarship for traineeship at CWI Amsterdam   Sep'18 - Apr'20
Scholarship for summer internship at TU Kaiserslautern   May'13 - Jul'13
Secured **All India Rank 843 (top 0.3%)** in IIT-JEE amongst 500,000+ students   2010
Graduate Record Examination: Quantitative: **163/170**, Verbal: **156/170**, Total: **319/340**   2016

Programming Skills

Languages: Python, Bash, SQL, R, Matlab, Scilab, C++, LaTeX
Frameworks: snakemake, conda, TensorFlow, git, jupyter, scikit-learn, numpy, pandas
Machine Learning: Random Forests, Elastic-Net, deep learning implementations on GPUs

Extracurricular

Life Science Representatives, Graduate School of Life Sciences UU   Sep'17 - Aug'18
Sports: power-lifting, squash, badminton, biking, trekking
Interests: meditation, tech start-ups, podcasts, health & fitness, (experimental) cooking, (electronic) music
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