

Dr. Mehar A



Profile

Highly skilled Data Scientist with expertise in predictive modeling and familiarity with large language models (LLMs)/GenAI. Have researching/building data science applications experience in finance, real estate and medical domains. Proficient in Python and R. I am passionate at both researching and building new machine learning (ML) and artificial intelligence (AI) methods, as well as applying them to solve intriguing data science problems to derive actionable insights and innovative solutions.

Certifications in progress

- Machine Learning Engineer (AWS)

Skills

- Python, R, Linux/Bash scripting, AWS, FastAPI, Apache Airflow, Kubernetes, SQL, Git, Docker, Bitbucket,
- scikit-learn, pandas, keras, tensorflow, openai (GPT-3/4 API)

Experience

Senior Data scientist at *SkenarioLabs, Espoo* **05.2022–present**

- Full stack ML/AI model development from understanding the customer needs, designing, developing models and pipelines and deploying to cloud services.
- Lead for green energy financing ML projects to provide services for financial and lending institutions, leveraging data analytics for impactful decision-making.
- Leveraged Large Language Models (LLMs) via the ChatGPT-4 API by OpenAI to generate AI-driven solutions for business needs.
- Defining model architectures and understanding of both business objectives and technical capabilities with cross-functional teams and stakeholders to deliver an intuitive product experience.
- Code reviews to production, producing white papers to the stakeholders.

Data scientist at *CSC-IT center for science, Helsinki.* **01.2022–05.2022**

- Team lead for developing data analytics dashboard platform.
- Maintained and served ETL pipelines (SQL, Apache Airflow).
- Teached in workshops for practical ML courses.

Data scientist at *University of Helsinki.* **2020–2021**

- Lead EU funded project from design to implementation with a team of 4.
- Developed and open-sourced the code for an interactive dashboard application for visualization and exploratory insights.

Doctoral Researcher at *University of Helsinki.* **2015–2020**

- Conducted large-scale data analysis and implemented machine learning models to identify patterns in diverse datasets.
- Implemented statistical models to predict gene-disease associations, improving the accuracy of predictive models.
- Built interactive dashboards applications for visualizations.
- Developed data analysis pipelines which included etl operations and data analysis.

Data Analyst at *Fimlab Laboratoriot Oy, Tampere* **2016–present**

- Developed and maintained automated data pipelines (Python/Shell/R) to process and analyze large datasets.
- Generated detailed analytical reports and data insights for stakeholders, providing actionable recommendations.

Research assistant at *University of Helsinki.* **2011–2015**

- Built automated pipelines (python/shell) to analyze large-scale datasets and model-based filtering.

Education

Doctor of Philosophy Bioinformatics. *University of Helsinki.* **2020**

Master of Science (Tech) Bioinformatics, Department of Computer Science and Engineering. *Aalto University.* **2013**

Master of Science (Tech) Biotechnology, Department of Biotechnology *Andhra University.* **2009**

Projects

Project in multi-label text classification (NLP). *KPMG, Helsinki.* **2018**

Convolutional neural network (CNN) modelling on chest X-ray images to diagnosis COVID-19. **2021**

Implemented Artificial neural networks (ANNs) to diagnose diabetes and breast cancer. **2021**

Achievements

- Produced 30 scientific peer-reviewed journal publications during my research career <https://pubmed.ncbi.nlm.nih.gov/?term=meharji+arumilli>.