

Farooq Ahmad Wani

Artificial/Machine Learning Engineer of four and a half years' tenure, with a proclivity for constructing, implementing, and augmenting intricate and varied architectural models. Adept in the realm of data science and its affiliated disciplines, including but not limited to: Deep Learning, Machine Learning, Artificial Intelligence, and Programming. The revolutionary nature of these fields continually invigorates my desire to delve deeper into them. I have a Master's degree in Artificial Intelligence and deep learning from the University of Sapienza, Rome, Italy, as well as a Bachelor's degree in Computer Science from the National Institute of Technology, Srinagar. Currently I am pursuing my PhD in Data Science from university of La Sapienza Rome.

WORK EXPERIENCE

Data Scientist: worked at **General Electric (GE)** for a duration of 4 years and 3 months, from June 11, 2016 to October 22, 2020. Based in Bangalore, India. Overview of the key projects and responsibilities:

- Defect Detection: Utilized Enhanced Super-resolution Gans and various Deep Learning techniques for the identification of defects in shrouds. Implemented the application using a simple Model-View-Controller architecture.
- Pricing Analytics: Applied Gradient boosting trees to predict customer payment behaviour.
- My Fleet: Developed and deployed an analytical service to present the relative performance of Turbines. The application was built using the Spring Framework and Model-View-Controller architecture.
- Wilmington: Utilized time series analysis to predict peak power consumption at the Wilmington site. The user interface was developed using Predix APIs.
- HR-Analytics: Employed Natural Language Processing to validate resumes for specific role using the Transformer architecture. Created a simple REST API using Flask to return values.
- Apriori Algorithms: Utilized Apriori algorithms to address customer concerns and queries, and trigger the appropriate department. Triggers and event handlers were employed.
- Service Agreement: Leveraged Tableau generated visualizations to extract insights from data and provide relevant solutions.
- Utilized JPA repositories, worked with Microsoft SQL, Oracle, and Postgres, and used EasyMock and Mockito for testing.

Software Engineer (intern): worked at **HCL Technologies** for a period of 4 months, from November 6, 2014 to February 28, 2015. Based in Delhi, India. Overview of the key projects and responsibilities:

- Developed a demand management tool using microservice architecture.
- Worked extensively with Maven and Spring Boot, along with Java, to create REST APIs.
- Worked with code coverage tools.

EDUCATION

Currently I am in second year of my PhD from **Sapienza Università di Roma**, besides that I also have Masters in Artificial Intelligence and Robotics from **Sapienza Università di Roma**, completed between 2020/21 and 2022/23. The university is located in Rome, Italy. The website for the university is <https://www.uniroma1.it>. The curriculum covered a variety of subjects related to Artificial Intelligence, Deep Learning, and related fields including:

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| • Deep Learning | • Artificial Intelligence |
| • Machine Learning | • Neuro Engineering |
| • Neural Networks | • Planning and Reasoning |
| • Natural language Processing | • Human Computer Interaction |
| • Reinforcement Learning | • Robotics |
| • Computer Vision | • Autonomous Mobile Robots |
| • Vision and Perception | • Advanced Artificial Intelligence |

Additionally, holds a Bachelors of Information and technology, with a CGPA of 8 out of 10, from **National Institute of Technology (NIT)** located in India. The website for the institute is <https://nitsri.ac.in/>

DIGITAL SKILLS AND TRAININGS

Expertise

- Data Science
- Reinforcement Learning
- Artificial Intelligence
- Micro Service architecture
- Deep Learning
- Machine Learning
- Computer Vision
- Time Series Forecasting
- Neural Networks
- NLP
- Data Visualization
- Software development

Skills and Tools

- Python
- Tableau
- SQL
- Flask
- Pytorch
- Java
- MySQL
- Spring framework
- TensorFlow
- C
- PostgreSQL
- Docker
- Keras
- C++
- Agile dev.
- Spark
- Rally
- Latex
- Aws
- MongoDB

LANGUAGE SKILLS

Mother tongue(s):

Kashmiri, Urdu

OTHER LANGUAGES	LISTENING	READING	WRITING	SPOKEN PRODUCTION	SPOKEN INTERACTION
ENGLISH	C2	C2	C2	C2	C2
ITALIAN	A1	A1	A1	A1	A1

AWARDS AND HONOURS

Have proven track record of excellence and achievement, as evident by numerous awards and recognition, including winning the Impact Award from GE on four occasions, being a victorious participant in the TCS Hackathon of 2015, received multiple awards for going above and beyond expectations, being honoured with a Hub award from GE India, and performed exceptionally well in the AWS Deep Racer program. Additionally, made contribution to the field through research, as evident by the acceptance of paper to esteemed conferences such as the IJCNN(JAPAN).