

Tarunika Vijayakumar

Tel: +49 15214361753
E-mail: tarunikaofficial19@gmail.com
LinkedIn URL: <https://www.linkedin.com/in/tarunika-vijayakumar-992aa5208/>

Pulverhäuserweg 114
64295 Darmstadt



Studies and School

Master of Science in Information and Communication Engineering

Specialization in Communication Systems and Networking

Technische Universität Darmstadt
Darmstadt, Germany
10/2025 – Expected 10/2027

Bachelor of Engineering in Electronics and Communication Engineering

Thesis: Botnet Prediction Using Machine Learning
intersection of cybersecurity and data science while applying various machine learning models to identify patterns and anomalies in network traffic that could indicate potential botnet attacks.

Final Grade: 1.7

St Joseph's College of Engineering
Chennai, India
08/2019 – 04/2023

Senior Secondary School: Science, Mathematics & Information Practices

Final Grade: 86.4%
Studied Java and MySQL, applying OOP principles and relational database concepts to develop an Airline Ticket Booking System with flight search, ticket reservation and backend data management.

SNBP International School
Pune, India
05/2019

Work Experience

NETWORK ENGINEER

- Established, managed, and maintained the network infrastructure to deliver customer-specific solutions and needs
- Worked extensively with leading OEMs like Juniper, Cisco, and Drivenets.
- Diagnosed and troubleshoot complex network issues, optimized communication systems, and ensured minimal downtime for critical business operations
- Collaborated with cross-functional teams to design and implement scalable, high-performance network infrastructure
- Continuously researched and integrated cutting-edge networking technologies, contributing to the evolution of digital communication infrastructure.

Tata Communications Limited
Chennai, India
07/2023 – 09/2025

Practical Experience

Mini Project in Machine Learning – Diabetes Prediction

Applying supervised learning techniques such as machine learning algorithms to analyse patterns in healthcare data, which helped me understand the potential of AI in healthcare applications

News Tracker Application Powered by IBM Developer

Integrated various APIs to provide real-time news updates, enhanced my skills in cloud technologies and application development.

Technical Skills

Software Skills

Microsoft Office
AI & ML

Very Good Knowledge
Good Knowledge

Databases

MySQL

Very Good Knowledge

Programming Languages	C Programming Python Java	Good Knowledge Good Knowledge Basic Knowledge
Web Technologies	HTML	Good Knowledge

Certification

- Certified JNCIA Professional with a 90% score
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Publications and Presentations

- Co-authored a Book titled - Basics and Advanced C programming
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Knowledge & Interest

Language	English	C1
	German	A1
	French	A1
	Hindi	B2
	Tamil	C1
Interest	Badminton	
	Dancing	
	Cooking	

Vamika.

Darmstadt, 02-02-2026