



Praveen Kumar

📍 **Work** : Fondazione CMCC, Via Marco Biagi, 5, 73100, Lecce, Italy

✉ **Email**: praveen.kumar@cmcc.it

Nationality: Indian

ABOUT MYSELF

Cloud Software Developer & Geospatial Analyst with 6+ years of experience in meteorology, climate change, and disaster risk reduction applications. Skilled in cloud platforms, GIS, Python, web development, and spatial data analysis.

WORK EXPERIENCE

The Euro-Mediterranean Center on Climate Change (CMCC)

City: Lecce | **Country**: Italy

[09/2024 – Current] **Junior Research Associate**

Development of cloud-based geospatial applications and services.

Focused on porting, recoding, re-engineering, and developing codes and procedures for various services and applications including ocean relocatable modelling, AI-driven services, and value-added tools to be deployed on CMCC's hybrid cloud and high-performance computing (HPC) infrastructure.

North Eastern Space Applications Centre, Department of Space, Government of India

City: Umiam, Shillong | **Country**: India

[01/2022 – 09/2024] **Research Scientist**

Geo-spatial portals development.

Spatial and non-spatial data handling, visualisation, spatial decision support tools development.

Geo-server managing of disaster risk reduction with open-source GIS Tools and Technology.

Extrapolating data and providing actionable insights aligned with computer science, modelling, geoinformatics and statistics.

North Eastern Space Applications Centre, Department of Space, Government of India

City: Umiam, Shillong | **Country**: India

[05/2021 – 01/2022] **Senior Research Fellow**

Analysis and visualisation of meteorological data in close to real-time.

An automation script for analysis, maintaining database, and Visualisation of Meteorological data

North Eastern Space Applications Centre, Department of Space, Government of India

City: Umiam, Shillong | **Country**: India

[04/2019 – 05/2021] **Junior Research Fellow**

Prepared daily near-real-time Inverse Weighted Distance (IDW) interpolation maps and reports on the basin and

Inform the competent authority. Maintain Automatic Weather Stations Accuracy

EDUCATION AND TRAINING

- [2016] **Master of Technology in Information Technology**
Madan Mohan Malaviya University of Technology
City: Gorakhpur, Uttar Pradesh | **Country:** India |
- [2014] **Bachelor of Technology in Computer Science and Engineering**
Uttar Pradesh Technical University
City: Lucknow, Uttar Pradesh | **Country:** India |
- [2021] **Post Graduate Programme in AIML (Online)**
National Institute of Technology
City: Warangal | **Country:** India |
- [2017] **Certificate in Geoinformatics**
University of Twente
City: Enschede | **Country:** Netherlands |

SKILLS

Experience with PHP, SQL, HTML, CSS, JavaScript | Docker | Web Development (Python/Django) | Anaconda (for Python) | PostgreSQL, MySQL | Linux (Terminal Commands, Bash/Shell) | Visualization (Jupyter, d3.js, OpenLayers.js, Leaflet.js) | Version Control System (Git) | IDE: Visual Studio, Pycharm, Jupyter Notebook | GIS software: Expert QGIS and good control of ArcGIS | Google (Earth, GEE, Drive...) | Parse and RESTful backend APIs integration, JSON parsing | HPC

PUBLICATIONS

- [2018] [Mapping, Visualization, and Digitization of the Geo-Referenced Information: A case study on Road Network Development in Near Real Time](#)
Reference: Ronak Jain, Himansi Bhatt, Nithya Jeevanand, Praveen Kumar
- [2016] [A Comparative Study on Sentiment Analysis and Opinion Mining](#)
Reference: Praveen Kumar, Dr. Umesh Chandra Jaiswal

NETWORKS & MEMBERSHIPS

- [Current] **Indian Meteorological Society**
Life Member
- [Current] **Indian Society of Remote Sensing**
Life member

PROJECTS

- [17/01/2022 – 12/09/2024] **North Eastern Regional Node for Disaster Risk Reduction**
Link: <https://www.nerdr.gov.in/>