

# REVATHY PONNAMBALAM

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Seeking a challenging role as a Geospatial Data Scientist, where I can utilize my expertise in GIS, remote sensing, and machine learning to help organizations make data-driven decisions and solve complex spatial problems.

## EDUCATION

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**Master's in data science (MDS)**  
**The University of British Columbia**

**Vancouver, BC**  
**June 2023**

- **Relevant Coursework:** Machine Learning, Deep Learning, Spatial & Temporal Models, Data visualization, Regression I and II, AI, Algorithms and Data Structures, Geospatial Data Analysis, Remote Sensing for Environmental Monitoring, Spatial Data Science, Geostatistics, Advanced Machine Learning, Cloud Computing and Big Data Analytics.

**Master of Engineering (ME): Transportation Eng, First Rank/Gold Medal, CGPA: 9.57**  
**College of Engineering, Anna University**

**Chennai, IN**  
**May 2013**

**Bachelor of Engineering (BE), Geo-Informatics (GI), CGPA: 8.28**  
**College of Engineering, Anna University**

**Chennai, IN**  
**May 2011**

## EXPERIENCE

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**a'XYKno / Hitachi**

**Chennai,IN**

**Assistant General Manager [Public Sector projects]**

**Oct 2015 – June 2022**

- Led JICA-funded projects, collaborating with the Hitachi team on "Vehicle Weight Estimation" and "Optimization of Public Transport" using automatic vehicle detection through stereo cameras.
- Employed geospatial data analysis techniques and models to improve the accuracy of vehicle weight estimation and optimize public transport routes, demonstrating expertise in project management, scoping, costing, and adherence to specifications for public sector projects as the Project Manager.
- Contributed to the preparation of GIS-based master plans, comprehensive mobility plans, and transport modeling for various central/state government projects, utilizing a data-driven approach.
- Developed and analyzed GIS thematic maps and maintained strong relationships with State/Central Government clients, regularly communicating and running meetings and workshops as needed.

**Hitachi Solutions**

**Tokyo,JP**

**GIS Development Trainee (ITS Division)**

**Aug 2014- Feb 2015**

- Maintained data accuracy and integrity in Hitachi's proprietary GIS software, GeoMation, by managing the geospatial database in SDE.
- Developed GIS/ITS prototypes to identify crop-cultivated areas, estimate crop yield, assess crop health, and map irrigated landscapes for agricultural land in Australia.
- Coordinated pre-disaster planning and preparedness, prediction and early warning, and damage assessment and relief management for a GIS-based Disaster Management System/Emergency Response System for the Vietnam Government, utilizing analytical skills to develop GIS prototypes that provide decision-makers with a clear understanding of crop conditions and disaster situations.

## TECHNICAL SKILLS

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- Programming Languages: R, Python (Pandas, Numpy,sklearn), Java, SQL.
- Software: ARCGIS, QGIS, ERDAS, TransCAD, SPSS, STELLA.
- Data visualization: plotly, matplotlib, dash, Shiny
- Certification: Japanese Language – N3 level.

## VOLUNTEERING – BHUMI NGO

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Led a team of volunteers in organizing and teaching educational programs to underprivileged children in Chennai. Collaborated with local community leaders to identify and address specific educational needs.