

# PRAVARDHAN HEMANTH RAJ

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## SUMMARY

Current Master student in **Environmental Science and Management** at the **University of York** with previous experience as a Quality Control Analyst. I am actively seeking opportunities as a Quality Control Analyst. well-versed in doing quality control utilizing ICP-OES, GC and HPLC techniques.

## EDUCATION

**MSc in Environmental Science and Management** | University of York | 2023-2024 |

- **Modules:** Environmental management in practice, Ecotoxicology, and environmental health, Ecosystem services conservation and protection, Monitoring and control of pollution, Research skills and methods, Climate science and policy.
- **Project:** study on assessing the environmental impact of the Bishop Wilton Wastewater treatment plant, including the analysis of Bishop River water samples to evaluate potential harm to aquatic life and water quality.
- **Dissertation:** Characterization of heavy metals in E-cigarette aerosols and E-liquids using ICP-OES.

**BSc Chemistry, Biotechnology and Environmental science** | Mysore University | 2019- 2022 |

- **Modules:** Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Environmental Studies and Human Rights, Organic Preparations and Basic Laboratory Techniques.
- **Project:** Study of municipal solid waste management in Mysore, focusing on waste separation, disposal strategies, recycling, and reuse techniques to reduce the impact on climate change.

## WORK EXPERIENCE

**Researcher** | York Environmental Sustainability Institute [YESI] | May 2024 – September 2024 | York, UK

- Conducted laboratory analysis using **ICP-OES** to quantify heavy metals in e-cigarette aerosols and e-liquids.
- Performed research in a lab setting funded by the York Environmental Sustainability Institute, focusing on heavy metal contamination in e-cigarettes.
- Developed and presented detailed lab-based findings on e-cigarette safety, highlighting environmental and health impacts.

**Quality Control Analyst** | Jubilant Pharmova Ltd | October 2022 – June 2023 | Mysore, India

- Conducted quality analysis on wastewater samples from 5 pharmaceutical plants using spectrometry, and titrations, leading to an improvement in treatment efficiency at Plant 6(WWTP).
- Monitored water quality parameters, including BOD, COD, and TSS, to assess treatment efficiency and implement process improvements, leading to a **10%** increase in overall plant performance.
- Conducted routine analysis and testing on samples, including preparing standard stock solutions and calibration standards for accurate and reliable results.
- Gained experience in understanding quality control procedures and record keeping using Excel, Word, PowerPoint, SPSS and R.

- Implemented methodical quality assurance protocols, ensuring compliance with regulatory standards and reducing deviations by **15%**, thereby improving overall safety and reliability.
- Gained practical experience in industrial water pollution control and management practices.

**Crew Member** | Mc Donalds | October 2024 – Present | Blake Street, UK

- Delivered efficient communication and high-quality service to an average of 300 customers daily, resulting in **95%** satisfaction.
- Managed and reduced waste by **10%** through meticulous tracing and restocking.
- Maintained strict adherence to hygiene and safety standards, achieving **100%** compliance.
- Awarded for outstanding performance, including exceptional teamwork and leadership in high-pressure situations.

## EXTRACURRICULAR ACTIVITIES

- **University of York** - Collaborated on a group project aimed at reducing CO2 emissions from tourism waste.
- **Volunteer, Clean Mysuru Foundation** – Engaged in waste reduction, litter removal, and various environmental cleanup projects to enhance neighbourhood health and cleanliness.

## LANGUAGES, SKILLS AND CERTIFICATES

- **Languages:** English.
- **Skills:** UV- Vis Spectrophotometer, IR Spectrophotometer, High-Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), Inductively coupled plasma optical emission spectroscopy, IBM SPSS, R, ArcGIS, Microsoft Excel.
- Knowledge on International Organization for Standardization (ISO).
- **Certifications:** Advanced sustainable development in practice, UNITAR.  
ISO/IEC 17025 - Laboratory Management Systems, Udemy.

