PARVEES AHAMED

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SUMMARY

Enthusiastic Research Scholar with a strong background in Environmental Engineering (M. Tech.) and Civil Engineering (B. Tech.), having research experience in green nanocomposite-based photocatalysis and practical exposure to environmental management in consulting and power sectors, aiming to contribute to sustainable and advanced water and wastewater treatment solutions.

EDUCATION

Degree	Institute	Year
Doctor of Philosophy	IIT Madras, Chennai, India	2025-Ongoing
Master of Technology in Environmental Engineering	IIT Bhubaneswar, Odisha, India	2022-2024
Bachelor of Technology (Honours) in Civil Engineering	TKM College of Engineering, Kollam, Kerala	2018-2022

PROFESSIONAL EXPERIENCE

Assistant Officer (Environment Management) – NTPC Ltd. (February 2025 – June 2025)

- Monitored environmental parameters ensuring regulatory compliance.
- Contributed to sustainability initiatives within the power generation facility.
- Reporting and documentation related to environmental audits.

Graduate Consultant (Geo-Environmental) - WSP Consultants India Pvt. Ltd. (June 2024 – February 2025)

- Assisted in Phase 1 Preliminary Risk Assessments desk studies and Conceptual Site Models.
- Handled data management and environmental compliance documentation.
- Supported sustainability assessments for infrastructure projects.

INTERNSHIP

Project Intern - Translational Research and Professional Leadership Centre (TPLC) (Sep 2021 – Oct 2021)

- Assisted with project scheduling and cost management, ensuring efficient tracking of timelines and resources using Primavera Software.

Marketing Intern - Vidhyapeetham Software Services Pvt. Ltd., (Jun 2020 – Jul 2020).

- Assisted in promoting their soft skill development application among college students, enhancing engagement and user adoption through targeted outreach and marketing strategies.

ACADEMIC PROJECTS

- **Visible Light Photocatalytic Degradation of Methylene Blue and Paracetamol using Carbon Fibre Cloth – Bismuth oxybromide - Green Silver Nanocomposites (May 2023 – May 2024)**
  Synthesised silver nanoparticles from water hyacinth and characterised the green nanocomposite properties, while also studying the effects of operational parameters on the solar photocatalytic degradation of Methylene Blue and Paracetamol. Explored the adsorption and degradation mechanisms of pollutants and assessed the reusability of the photocatalyst across multiple cycles.

- **Drought Prediction using Deep Learning (Jun 2021 - Jul 2022)**
  Developed an LSTM model to predict short, medium, and long-term droughts in Palakkad District, Kerala, and compared its performance against machine learning models such as Random Forest, Support Vector Regressor, and Model Tree for enhanced drought prediction accuracy.

- **Cost and Energy Efficient Hydroponics System (Jun 2020 – Dec 2020)**
  Developed a new modified hydroponics system using Bamboo and She-Oak woods.

PUBLICATIONS

- Upasana Priyadarshini, **Parvees Ahamed** & Remya Neelancherry (2025). Solar photocatalytic treatment for the degradation of ciprofloxacin using modified TiO_2, n: Rajesh Roshan Dash, Sankarsan Mohapatro, Manaswini Behera (eds), Pollution Control for Clean Environment-Volume 1, ICPCCE 2023., Lecture Notes in Civil Engineering, vol 415, Springer, Singapore.
- **Ahamed Parvees**, Upasana Priyadarshini, & Neelancherry Remya (2024). Visible light induced photocatalytic degradation of methylene blue using carbon fibre cloth - Bismuth oxybromide – Water hyacinth derived silver nanocomposite, Environmental Research, Volume 262, Part 1, 2024.

CONFERENCE

- Upasana Priyadarshini, **Ahamed Parvees**, & Neelancherry Remya (2023). Solar photocatalytic treatment for the degradation of ciprofloxacin using modified TiO_2. International Conference on Pollution Control for Clean Environment (ICPCCE-2023), December 15-16, 2023, IIT Bhubaneswar, India.

PROFESSIONAL MEMBERSHIP

- Institute of Environmental Management (IEMA) – Associate Membership

AWARDS & ACHIEVEMENTS

- GATE 2024 – Environmental Science and Engineering (ES) paper – AIR 352 – Score 544
- GATE 2021 – Environmental Science and Engineering (ES) paper – AIR 673 – Score 491
- CAT 2021 – 84.31 Percentile

LICENSES & CERTIFICATIONS

- **Autocad Advanced** – Autodesk
  (Aug 2020, Credential ID: AP1111096214974622918)
- **Revit Architecture** – Autodesk
  (Feb 2020, Credential ID: AP1111096056364622918)

SOFTWARE COMPETENCY

Auto CAD, Revit Architecture, Design Expert, C++, QGIS (Basics), Python (Basics), Primavera (Basics)