

# AVINASH PASUPULATE

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*Data Analyst with experience in healthcare quality assurance and environmental research*

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## Education

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**Masters in Food Science (MBIOT), 2015**  
University of Helsinki, Helsinki, Finland.

**Bachelor of Technology in Biotechnology, 2011**  
PITAM (Anna University), Chennai, India.

## Experience

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***May 2018 – Present***

**Data Analyst,**  
Ganit Business Solutions Pvt. Ltd.  
Chennai, India

- Python programming language with various packages used in data science pipeline
- Data visualization using Google Data Studio & Power BI through various stages of ingestion, staging and ETL
- EDA using power BI and python packages
- Management of application development operations and documentation, report generation
- Design and deployment of services on AWS for data processing pipelines

***May 2016 – April 2018***

**Senior Executive- Quality Assurance,**  
LifeCell International Pvt. Ltd.  
Chennai, India

- **Risk analysis; Identifying, validating and monitoring critical control points.**
- Process improvement and control through Change Control process, Deviations, Risk Management, Corrective & Preventive Actions.
- Automation of data collection/processing using google apps script and google tools
- Business/process performance measurement by analysing data to improve quality assurance.

***September 2013 – October 2015***

**Research Assistant, MMX Group**  
Department of Food and Environmental  
Science, University of Helsinki, Finland.

- Construction of antibiotic sensing bacterial bioluminescent bioreporters and application in sensing contaminants in food
- Application of yeast based bioluminescent bioreporters for sensing hormone disruptors.

**February 2012 - August 2012**

**Research Intern (Molecular Biology)**  
Biozone Research Technologies, Pvt Ltd.  
Chennai, India.

- Experimental design and conducting various biochemical and molecular assays

## **Skills**

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### **Data Science**

- Python programming language with various packages used in data science pipeline
- Data visualization using Google Data Studio & Power BI
- Management of application development operations and documentation
- Design of data processing architecture on aws
- Design and deployment of services on AWS for data processing pipelines

### **Recombinant Genetics**

- Gene cloning (Polymerase Chain Reaction (various PCR subtypes), restriction digestion, ligation, screening for transformants, DNA isolation and sequencing)
- Plasmid design and construction
- Protein expression and purification in prokaryotic systems
- In situ Hybridization (using RNA probes)

### **Gene Expression Studies**

- RNA extraction, cDNA synthesis (Rev. Transcriptase PCR), Quantitative PCR
- Extraction of phytohormones and basic interpretation of Mass spectrometric data
- Extraction of biomolecules by fermentation and downstream processing.

### **Food Safety and Hygiene**

- Isolation and characterization of pathogenic microbes from food, water and air using morphology, immunological and PCR based methods.
- Using bioluminescent bioreporters for testing food safety

## **Conference**

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Presented a poster titled “Development of Bacterial Bioreporters for Monitoring Antibiotic Levels in Animal-Based Food Sources” at the 15<sup>th</sup> ISME (*International Society of Microbiological Ecology*) held at Seoul, South Korea (24<sup>th</sup>-29<sup>th</sup> August 2014).