



Vishwesh Deshpande

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Home: 7/1 Krishna Govind Banglow, Dr. Moonje Path, Samarth Nagar,
422005 Nashik (India)

EDUCATION AND TRAINING

Master of Technology (Integrated) Biotechnology

Dr. D. Y. Patil Biotechnology And Bioinformatics Institute, Dr. D.Y. Patil Vidyapeeth [

19/06/2019 – 31/05/2024]

City: Pune | **Country:** India | **Website:** <https://biotech.dpu.edu.in/> | **Field(s) of study:** Biotechnology ; Bioinformatics

WORK EXPERIENCE

Data Analysis Intern - Biomarker Analysis

Biomarkiq [21/08/2024 – Current]

City: Pune | **Country:** India

Conducting thorough analysis and research on cancer-related papers, and reviewing the literature to identify potential biomarkers for further evaluation and selection in the VarSee AI pipeline.

Involved in the development of the company VarSee AI pipeline. Implementing machine learning algorithms, and creating datasets.

Bioinformatics Intern

MyGenomeBox India Private Limited [10/07/2023 – 30/06/2024]

City: Pune | **Country:** India | **Website:** <https://www.mygenomebox.com/>

I worked as an intern in the Bioinformatics Team.

1) **I was involved in the development of a computational pipeline** related to immunodeficiency disorders. the pipeline was built by using GATK and Python to transform raw data into a patient-ready PDF report. This involved generating VCF files, bio-curating a specialized database for immunodeficiency-related rs IDs, cross-referencing identified rs IDs, and formatting the final output into a report template.

2) **Developed and implemented Python scripts for analyzing healthcare data** obtained in CSV format from affiliated hospitals. The data was microarray and CNV test results. I used libraries like NumPy, Pandas, and Matplotlib to process, analyze, and visualize this data according to project and company needs.

3) **Used Microsoft Office** for data research, data handling and content creation for various application design elements, including theme design and writing content for introductory pages.

Summer Intern

Datar Cancer Genetics Limited [19/06/2022 – 20/07/2022]

City: Nashik | **Country:** India | **Website:** <https://datarpgx.com/> | **Name of unit or department:** Bioinformatics - Business or sector: Professional, scientific and technical activities

Worked in Molecular Biology / Diagnostic Lab and Bioinformatics Lab.

- 1) Observed and performed nucleic acid extractions which included genomic DNA, exosomal RNA, FFPE DNA/RNA, and cell-free DNA for downstream analysis. Used Nano-drop and Qubit Flex Fluorometer for measuring concentration of DNA.
- 2) Assisted Senior Researchers in analyzing DNA libraries using PCR, Gel electrophoresis, and Bioanalyser.
- 3) Observed and Assisted Senior Scientists with sample preparation and sequencing on Next Generation Sequencing Platform ION TORRENT (Chef Ion Torrent 550, Ion GeneStudio S5), contributing to high-quality NGS data generation.
- 4) Learned about Next Generation Sequencing Analysis using in-house pipelines, which further improved my knowledge of variant calling and annotation workflows.
- 5) Learned about various Cancer and Precision Medicine databases like COSMIC, and dbSNP. Observed and performed small scripts using Perl for analysis purpose under senior scientists.

Research Associate

BioLim Centre for Science & Technology [06/07/2021 – 20/08/2021]

City: Chennai | Country: India

Training on Research associate role and learned about how to conduct proper research.

- Made a Research Proposal.
- Data Management.
- Wrote a review article titled "Protein Engineering in Cancer Treatment"

Summer Research Intern

Dr. D. Y. Patil Biotechnology and Bioinformatics Institute [10/06/2020 – 30/08/2020]

City: Pune | Country: India | Business or sector: Education

Worked Under the guidance of Dr. Manisha Junnarkar. During this training, I acquired knowledge about scientific writing, comprehensive literature search, data organization, data analysis and what are the primary steps to conduct research. I worked on a review article - "Nutraceuticals, the gut microbiota, and Human Health"

PROJECTS

[10/2022 – 04/2023]

Understand Codon Bias and Gene Clustering in Mycobacterium Species

Link: https://github.com/VishD07/Understanding-Codon-Bias_in_Mycobacterium-Strains-

[07/2023 – 06/2024]

Development of a Computational Pipeline for the Identification of Pathogenic Variants Associated with Primary Immunodeficiency Disorders

Link: https://vishd07.github.io/portfolio/Images/Vishwesh_Deshpande_Dissertation_Report_final.pdf

[08/2024 – Current]

Lung Cancer Risk Predictor Using Machine Learning

Link: https://github.com/VishD07/Lung_Cancer_Predictor

CERTIFICATES

My Certificates

A list of all my certificates can be found below:

<https://github.com/VishD07/Certificates>

Link: <https://github.com/VishD07/Certificates>

DIGITAL SKILLS

Microsoft Excel / Microsoft Office / Python Programming / Microsoft Word / • SNP and INDEL variant calling by BWA and GATK tools / NGS variant analysis (GATK) / PERL Scripting / R language and R studio / Linux (Terminal Commands, Bash/Shell)

Biotechnology Skills

DNA & RNA Extractions / Molecular Docking / 2D/3D SDS PAGE / PCR (Polymerase chain Reaction) / Gel Electrophoresis

HONOURS AND AWARDS

[02/06/2017] Central Board of Secondary Education

Certificate of Merit

VOLUNTEERING

[04/2019 – 05/2020] Nashik , India

Parkinson's Disease & Movement Disorder Society (PDMDS), India

I was volunteer in a Parkinson's support group, My main work was assisting doctors and physiotherapists. This included helping patients with exercises, setting up equipment, or providing encouragement during activities.

[05/2017 – Current] Nashik, India

Khagol Mandal - Nashik

I am a volunteer at Khagol Mandal Nashik which is an astronomy club based out of Mumbai, I am involved in organizing various astronomical events of a club and lectures.

HOBBIES AND INTERESTS

Reading

Swimming