Pushkar Apshankar

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SUMMARY

B.Tech Biotechnology student with hands-on wet lab experience, bioinformatics fundamentals, and scientific writing skills. Exposure to AI-assisted drug discovery workflows, data analysis, and prompt engineering. Seeking internship roles combining laboratory and computational biotechnology.

EDUCATION

Year	Institute / School	Course / Board	CGPA / %
Aug 2024 – Present	Vellore Institute of Technology, Vellore	B.Tech in Biotechnology	8.31 CGPA
2022 – 2024	Suryadatta College of Arts, Commerce & Science, Pune	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	77.33%
June 2010 – May 2022	MES Bal Shikshan Mandir English Medium School	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	96.6%

POSITIONS OF RESPONSIBILITY

Junior Core Member
Biotech Research Society of India (BRSI)

- **Alchemix** (1-day workshop) - AI in Drug Dev using ChEMBL, SwissDock, UniProt, DataWarrior, and Weka.
- **Executed** sponsorship outreach by cold-emailing 40–50 biotech companies using Apollo.io and Mailmeteor, including structured follow-ups.

Junior Core Member
Alpha Bio Cell (ABC) Club

- **Hack-A-Pill** (1-day workshop) - AI in Drug Dev using SwissADME, ZINC, pkCSM, and Weka.
- **Designed** scientific posters with Canva and BioRender.

SKILLS

Wet Lab

- Microbiology - Micrometry(ocular & stage); Staining (Gram, Negative, Endospore, Capsule and Flagellar), Motility test (Hanging drop method), Antibiotic profiling (Kirby–Bauer method), Water quality testing(MPN method)
- Molecular Biology – RNA isolation (Triazol method), DNA separation(Agarose gel electrophoresis), Protein electrophoresis (SDS-PAGE and Native PAGE),
- Chemical separation – Thin Layer Chromatography, Differential Centrifugation
- Spectroscopy (UV-vis, Atomic, FTIR), Colorimetry, Titration (Acid-base, Back, Complexometric), Potentiometry, Sol-Gel synthesis, Flow measurement (Orifice-meter and Venturimeter)

Dry Lab

- Python (NumPy, pandas, matplotlib, seaborn, scikit-learn, BeautifulSoup, csv, json, pickle), R (readr, stats, dplyr, ggplot)
- MATLAB (MATLAB On-Ramp, Optimization On-Ramp, Simulink On-Ramp)
- Bioinformatics (BLAST, Clustal Omega, MEGA, ExPASy, PyMOL)

Tools

- Software – AutoCAD, OrCAD Capture CIS, Figma, Overleaf, Jupyter
- GenAI - Numerous (Excel data analysis without SQL), Gamma(PPT generation), Social-Sonic (social media posts), Write-Sonic (SEO-optimised blogs), Suno (songs for advertisements), Notebook-LM (QnA with documents and AI-generated notes), Ollama (run models locally), OpenRouter (multiple models)

PROJECTS

SciRewrite Pro
Google Gemini Gem

- **Designed** a custom Google Gemini Gem to restructure scientific paragraphs into research-paper–appropriate formats without encouraging plagiarism
- **Implemented** a step-by-step Markdown prompt workflow to enhance clarity, structure, and academic tone while preserving original meaning

COURSES	
Generative AI Mastermind (3 days)	• **Learn** about Agenttic AI systems like Fireflies, VAPI, Manus, etc. agents • **Built** a market-tracking dynamic dashboard with Claude • **Learnt** social media workflow automation with Make.com **Developed** a Gemini Gem for writing customized Linkedin posts • **Wrote** advertisement scripts with Claude **Analysed** a business market with Perplexity-Deep Research • **Developed** apps with AI agents - a voice notes app with Lovable, Supabase and API • **Learn** Markdown prompting technique for designing Instruction-conditioned LLM agents using Gemini Gems and Custom-GPT • **Learn** basic prompt engineering – zero-shot, few-shot, chain-of-thought, tree-of-thought, and self-consistency for LLMs, negative prompting and specific keywords for image generation
Coursera - Writing in the Sciences (8 weeks)	• **Mastered** academic writing and data presentation skills for research and review articles. • **Explored** the dos and don'ts of filing research grant applications • **Developed** skills to communicate science to lay audiences via blogs, interviews and news articles.