**Professional Portfolio: Pranav Tandon**

**Aspiring Biotechnology Enthusiast**

**Profile Summary**

Pranav Tandon is a **final-year Biotechnology Engineer** with a strong foundation in clinical research, bioinformatics, and biotechnology applications. His enthusiasm for **biomedical research** and **biotechnology innovation** is evident in his academic projects, internships, and publications. With hands-on experience in multiple domains such as **clinical research**, **food quality control**, and **computational biology**, Pranav is passionate about leveraging biotechnological advancements to improve human health outcomes. He is highly adaptable, with a proven ability to collaborate effectively within teams and a commitment to pushing the boundaries of biotechnology.

**Key Skills**

* **Clinical Research**: Experience with hematological analysis, biochemical testing, and biomarker quantification using advanced techniques like Fluorescence Immunoassay (FIA).
* **Bioinformatics**: Proficient in utilizing tools such as **BLAST**, **FASTA**, and **Clustal Omega** for protein structure prediction and drug discovery.
* **Patent Drafting**: Acquired foundational skills in drafting patents, aiding in the intellectual property aspect of biotechnological innovations.
* **Data Analysis**: Developed expertise in data collection, analysis, and interpretation in both clinical and research settings.
* **Food Quality Control**: Competent in detecting adulteration in food products, measuring acid values, and assessing food safety standards.
* **Team Collaboration and Communication**: Demonstrated ability to work in multidisciplinary teams, excellent presentation skills, and adaptability in various work environments.
* **Adaptability**: Able to quickly adjust to new technologies, research methodologies, and cross-functional roles in fast-paced research environments.

**Career Aspiration**

Pranav aspires to become a **leader in biotechnology research**, particularly in clinical research, biomedical engineering, and bioinformatics. His goal is to contribute to cutting-edge solutions in the fields of **disease diagnostics**, **therapeutic development**, and **biomedical technology**. He is eager to work in dynamic environments that challenge him to innovate and apply his knowledge to real-world problems that enhance **human welfare** and **patient care**.

**Education and Certifications**

* **Bachelor of Technology, Biotechnology** (2021-2025)  
  **CGPA**: 8.075  
  **Institution**: School of Engineering & Technology, Sharda University
* **Relevant Certifications**:
  + Diageo Manufacturing Job Simulation (Forage)
  + Thermo Fisher Scientific Mass Spectrometry Job Simulation (Forage)
  + Patent Drafting for Beginners (NPTEL-IIT Madras)
  + Waste to Energy Conversion (NPTEL-IIT Roorkee)
  + Organic Farming for Sustainable Agriculture Production (NPTEL-IIT Kharagpur)
  + Psychology of Stress, Health, and Well-Being (NPTEL-IIT Guwahati)

**Professional Experience**

1. **Clinical Research Intern** | Kuldeep Gangwar Pediatric Hospital (May 2024 – Present)
   * Performed hematological and biochemical analyses to support diagnostic processes.
   * Gained expertise in handling clinical samples and using advanced diagnostic tools such as Fluorescence Immunoassay (FIA) for biomarker quantification.
2. **Bioinformatics Trainee** | Rapture Biotech Pvt. Ltd. (June 2023 – July 2023)
   * Acquired proficiency in **bioinformatics tools** for protein structure prediction and analysis, and gained insight into the role of bioinformatics in drug discovery.
3. **Food Quality Control Trainee** | Rapture Biotech Pvt. Ltd. (October 2022)
   * Conducted quality control tests on food products to detect adulteration and ensure consumer health standards.

**Projects**

* **Study of Antimicrobial Activity of Cinnamomum tamala** | Sharda University  
  Explored plant secondary metabolites and their antimicrobial properties against commercial antibiotics.
* **Study of Plant-Derived Compounds as Antileishmanial Agents** | Sharda University  
  Investigated plant compounds for their potential use in novel therapies for leishmaniasis.
* **Review on Identification of Potential Drug Targets for Epilepsy** | Sharda University  
  Analyzed existing anti-seizure drugs and explored novel targets for therapeutic interventions.

**Publications**

* **Probiotics in Inflammatory Bowel Disease** | Sharda University
* **Antimicrobial Activities of Traditional Indian Medicinal Plant Cinnamomum** | Banaras Hindu University
* **Antimicrobial Activity of Traditional Medicinal Plant Ferula asafetida** | Banaras Hindu University

**Volunteer & Extracurricular Activities**

* **Cadet, Robin Hood Army (NGO)** | 2024 – Present  
  Volunteered to serve underprivileged communities by redistributing surplus food.
* **Member, PiXelance Photography Club** | 2022-2024  
  Demonstrated creativity and teamwork by participating in photography initiatives at Sharda University.
* **Volunteer, International Conference on Recent Trends in Biotechnology and Applied Bioinformatics** | 2023  
  Assisted in organizing an international conference, showcasing strong organizational and collaborative skills.

**Portfolio Overview**

**Strengths**:

* **Research Aptitude**: A strong background in conducting clinical and biological research with a demonstrated ability to handle complex projects.
* **Communication**: Skilled in articulating research findings and collaborating with multidisciplinary teams.
* **Adaptability**: Quickly adjusts to new tools, techniques, and work environments, making him an asset in dynamic research settings.

**Areas of Focus for Growth**:

* **Advanced Bioinformatics**: Further development in computational biology and bioinformatics to deepen expertise in genomic research and drug discovery.
* **Industry Exposure**: Gaining more exposure to real-world industrial biotechnology processes, specifically in therapeutic production and large-scale biomanufacturing.