

# Monideep Chakraborti

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## WORK EXPERIENCE

### Product Manager | NCBI, National Institutes of Health (NIH), Bethesda, MD, USA

Aug 2024 – Present

*NCBI manages biomedical search infrastructure, including PubMed, ClinVar, and other major life sciences databases*

- Led a comprehensive search analytics project across 30+ databases to uncover user search patterns and inefficiencies, delivering key insights that informed the data-driven prioritization for NCBI's Next Generation Search transformation
- Engineered an automated reporting system by integrating AppLog, Looker Studio, and Google Search Console, cutting manual query analysis time by 60% and enabling real-time tracking of search behavior trends
- Conducted 10+ targeted user interviews with cross-functional NCBI teams to identify 5 critical pain points in search workflows, directly shaping the early roadmap for the Next Generation Search initiative
- Designed and implemented a standardized search analytics framework with robust query logging processes, establishing the scalable foundation for MVP development and future analytics across NCBI databases
- Delivered multiple technical AI presentations to senior leadership, articulating key search trends and strategic recommendations that advanced the Next Generation Search project

### Product Manager | Happy Prime, Vancouver, BC, Canada

Jul 2023 – Aug 2024

*Happy Prime is a startup using speech recognition and large language models to create solutions for atypical speech speakers*

- Led the development of a 0-to-1 novel, AI/ML-enabled mobile app, prioritizing 3 core MVP features aimed at revolutionizing communication for individuals with atypical speech
- Collaborated with a cross-functional team of 7, including engineers, UI/UX designers, and data scientists, driving Agile product development and ensuring alignment with market needs and user feedback
- Conducted in-depth competitive analysis of 15+ industry players and 10+ market studies, identifying key gaps in AI-driven speech accessibility solutions and influencing product roadmap decisions
- Developed a data-informed product roadmap, incorporating 10 early user research insights, usability testing, and iterative feedback cycles to enhance ML model accuracy and real-world applicability

### Machine Learning Research Assistant | Northeastern University, Vancouver, BC, Canada

Apr 2023 – Jul 2023

*Northeastern University is a renowned institution with a strong focus on research and innovation*

- Enhanced a speech recognition algorithm using Python, improving error correction accuracy for atypical speech by 50%, demonstrating strong analytical and problem-solving skills
- Collaborated with 3 data scientists to refine ML model performance, applying data preprocessing techniques and iterative model tuning to optimize results
- Implemented Agile methodologies (Scrum, Kanban) to track project milestones, ensuring efficient cross-functional coordination and timely model iterations

## TECHNICAL KNOWLEDGE AND SKILLS

**Product and Project Management Tools:** Jira, Confluence, Trello

**AI & Search Technologies:** LangChain, Retrieval-Augmented Generation (RAG), Large Language Models (LLMs)

**Automation & Scripting:** Python (Pandas, NumPy, Scikit-learn), Bash scripting, API integration

**Data Analytics & Search Tools:** SQL, GA4, Looker Studio, Google Search Console, Microsoft Excel, Power BI

**Agile Frameworks:** Scrum, Kanban, Agile Release Management | **Design Tools:** Figma

## LEADERSHIP, AWARD AND CERTIFICATION

### U.S. Digital Corps Product Fellow | General Services Administration, Washington, D.C., USA

Aug 2024 – Present

- Selected as one of 70 fellows from over 2,000 applicants (3.3% acceptance rate) for a two-year federal program focused on deploying early-career technologists to work on high-impact projects across various federal agencies

### Vice President, Public Relations | Toastmasters, Vancouver, BC, Canada

Jul 2023 – Jul 2024

- Spearheaded digital campaigns across social media platforms, achieving a 40% increase in member recruitment and a 20% engagement rate on posts

## EDUCATION

**MS in Computer Science** | Northeastern University, Vancouver, BC, Canada

Sep 2020 – Dec 2022

**MS in Biomedical Science** | Rutgers University, Newark, NJ, USA

Sep 2016 – Oct 2018

**BA in Biochemistry and Molecular Biology** | Boston University, MA, USA

Sep 2011 – Jan 2016