

# SUSHANT ARYAL

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Linkedin



Github



Portfolio

## Education

### The University of Southern Mississippi

B.S. in Computer Science and Mathematics

Hattiesburg, MS

Expected May 2027

*Coursework: Machine Learning, Linear Programming, Data Analysis, Probability, Secure Software Development, OOP*

*Awards: Honors Scholar, President's List*

**Cornell University**, summer class in Machine Learning Foundations

August 2025

## Technical Skills

Python, JavaScript, TypeScript, C++, React, React Native, Node.js, Express.js, MongoDB, MySQL, SQL, TensorFlow, AWS, Clerk, Git, HTML/CSS, Linux

## Experience

### AI & Machine Learning Fellow

May 2025 – Present

*Cornell Tech*

*Remote*

- Selected from 3000+ applicants for the BreakThroughTech AI program at Cornell Tech
- Participated in 12 month long program including Machine Learning Coursework with Cornell faculty, experimental learning experiences, and mentorship from industry professionals

### Software & Data Science Intern

May 2025 – July 2025

*Delta Health Alliance*

*Greenwood, MS*

- Developed and taught a full Python curriculum to 40+ high school students in rural Mississippi.
- Built a prototype of a full-stack Learning Management System using React.js, Node.js, and SQL and presented to the board of directors

### Web Development Intern

Nov. 2022 – Aug. 2023

*FinancialNotices*

*Kathmandu, Nepal*

- Launched SEO-optimized websites using HTML/CSS and JavaScript, improving traffic by 30%.
- Built and deployed responsive React components for high-speed rendering across devices.
- Refactored legacy frontend codebase, reducing bugs by 40%.

## Projects

### Druglytics (Hacklytics 2025) | *Python, Streamlit, AWS, Cloudflare, Flask*

- Analyzed 300K+ drug interactions using NLP and LLMs to warn users of allergic conflicts.
- Deployed video summaries using Google Gemini and OpenAI for personalized medical insights.
- Implemented secure backend with MongoDB and Cloudflare, deployed on AWS EC2.

### Swiped-In (HackNYU 2025) | *Next.js, Node.js, MongoDB, Google Gemini*

- Built AI-powered hiring app matching job seekers with recruiters via swiping interface.
- Integrated Gemini for AI interviews and ElevenLabs for voice-based screening.
- Launched end-to-end MVP within 18 hours using Tailwind and MongoDB.

### Brot AI | *React.js, Node.js, MongoDB, Express.js*

- Created full-stack chatbot with user authentication, chat history, and AI response system.
- Connected Gemini API for conversation and Clerk for authentication.

### Airbnb Instant Booking Prediction (eCornell) | *Python, Jupyter Notebook, Numpy, Scikit-learn*

- Built a logistic regression model to predict whether an Airbnb listing is instant bookable, using 28k+ NYC listings with extensive data preprocessing and feature engineering.
- Evaluated performance with accuracy, precision, recall, and F1-score, and improved results through hyperparameter tuning and handling class imbalance.

## Leadership

### University of Southern Mississippi

May 2025 – Present

*Senior Resident Assistant*

*Hattiesburg, MS*

- Led a team of 12 RAs and 10 Desk Assistants to support 400+ residents.
- Promoted from Desk Assistant(2023) to Resident Assistant(2024) to Senior Resident Assistant