Rahat Bhambri

☎ +91 8289086585 | ✉ rahatbhambri@gmail.com | 🌐 linkedin.com/in/rahatbhambri

---

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, Golang, Java, JavaScript, Django, Flask, Vue.js, Spring Boot, Electron.js
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- **DevOps & Cloud:** AWS (EC2, EMR), Kafka, Docker, Kubernetes, GitLab CI/CD, Celery
- **Data Science & AI:** NLP (SpaCy, BERT), Pandas, Seaborn, Matplotlib
- **Others:** PyQt5, Flask-SocketIO, XIwings, Tableau

PROFESSIONAL EXPERIENCE

Freelancer – AI Prompt Engineer   *(Oct 2024 – Present)*

- Optimized **AI language model** by training **prompts** for top tier clients, which guaranteed greater response accuracy (through Turing).
- Improved AI-generated content through output evaluation and **reinforcement learning** based development techniques.

Avalara Technologies – Senior Software Engineer   *(Mar 2024 – Sep 2024)*

- Integrated **Kafka consumers** into the GATE validator, which improved the processes to check code quality during CI/CD.
- Improved release cycles by doing CI/CD deployment through **GitLab Actions, Docker and Kubernetes**.
- Improved the coverage for **Golang** code in Project Pluto to reach over 80%, and addressed **CI/CD** pipeline issues.
- Monitored application logs and improved debugging times with application performance metrics using **Grafana Loki**.

AlphaGrep Securities / GoMechanic – Senior Analyst (DevOps)   *(Apr 2022 – Nov 2023)*

- Boosted Trade execution through development of a manual trading interface using Python and **PyQt5**.
- Traded on CME, B3, and SGX exchanges by developing back-testing trade strategies and implementing them.
- Improved the accessibility of the standalone PyQt UI by converting it into a web application with **Vue.js and Flask-SocketIO**.
- Automated Excel workbooks for traders using **XIwings** and **Flask** to enhance the speed of data processing.
- Implemented the login system for traders with **OAuth 2.0** and **Google authentication** for increased security.

upGrad – Senior Associate, Product (Data & Content)   *(Jan 2020 – Mar 2022)*

- Improved the engagement on the **SQL** lab module by improving attempt rates of learners from 33% to 80% using data driven insights
- Helped in increasing trained modules ratings from 3.92 to 4.7 (out of 5) after the competition on telecom churn prediction which was posted to 200+ learners on **Kaggle**.
- Conducted coding sessions to train over 50 interns on basic principles of **data science**.

EDUCATION

B.E. Computer Engineering (8.4/10 CGPA)
Thapar Institute of Engineering & Technology, Patiala (2016–2020)

- **JEE Mains 2016:** 181/360 | **JEE Advanced:** AIR 17500 (GEN)
- **Class 12th:** 90% | **Class 10th:** 10.0/10

PROJECTS & RESEARCH

- **Searchy – AI-Powered Question Answering System:** Built an NLP-based Q&A system using **BERT, BS4, and Flask** for real-time response generation.
- **Web Scraper & AI Training Pipeline:** Developed a concurrent web scraper in **Go** for text extraction, later used for **AI model training**.
- **Malaria Outbreak Prediction Model:** Created an **SVM-based predictive model**, forecasting malaria outbreaks **15–20 days in advance** with high accuracy.

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Certified Developer Associate**
- **500+ LeetCode Problems Solved** *(300+ Medium & Hard)*

EXTRACURRICULARS

- **Chess Enthusiast:** Participant in online chess competitions for advanced players, specializing in strategy chess.
- **Tech Contributor:** Creating and supervised Kaggle contests, helping students in AI & data science.