Ank Agrawal

Aspiring Actuarial Analyst

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Work Experience

AI and Risk Analyst Intern *Dec 2024 – Jan 2025*
LegittAI

- Built an automated risk assessment model for invoices, contracts, and customer data, actively used by clients
- Assessed financial and operational risk using coverage ratios, overdue invoices, contract milestones, and customer sentiment
- Delivered actionable insights to support client decision-making and risk management

Independent Projects

Climate-Resilient Home Insurance Models *2024–2026*

- Built a premium pricing model using real insurer data to address climate-related insurance risks
- Applied regional trend analysis, actuarial modelling, and incentive-based pricing adjustments

Insurance Risk Analytics Project

- Analysed insurance portfolios to identify loss drivers using statistical and actuarial techniques
- Built risk metrics and scenario analyses to support pricing and underwriting decisions

Machine Learning Applications in Insurance

- Applied machine learning models to insurance datasets for risk prediction and pattern detection
- Used Python and statistical inference to enhance model interpretability and performance

Education

Macquarie University *Feb 2024 – 2026*
Master of Actuarial Practice
Course completed — awaiting degree conferral

Certifications

Institute and Faculty of Actuaries (IFoA) — Passed six actuarial examinations

- CS1 — Actuarial Statistics
- CS2 — Risk Modelling and Survival Analysis
- CM1 — Actuarial Mathematics
- CM2 — Financial Engineering and Loss Reserving
- CB1 — Business Finance
- CB2 — Business Economics

Competitions

MLC Case Competition — Finalist *Actuarial Society*

- Designed and pitched an innovative insurance product for young Australians
- Recognised for creativity, analytical insight, and practical impact

Skills

Technologies: Python, R, SQL, Excel, Git, Hugging Face, OpenAI APIs, LaTeX, Power BI

Core Skills: Data Analysis, Risk Modelling, Statistical Inference, Actuarial Modelling, Communication